# JAN 2 5 2002 TRADE MAR

#### 8297.10E.8T2E.twt SEQUENCE LISTING

lowery, Tavid E. Smith, Valdin G. Kubiak, Teresa M. Larsen, Martha J.

<120> Trosophila 3 Frotein Coupled Receptors, Mucleic Acids, And Methods Related To The Same

:130 - 6297.1cp

:140 - 09/693,746

:141 - 2000-10-20

<150> 09/425,676
<151> 1999-10-22

4160. 163

<170 PatentIn version 3.1</pre>

-12101-1

4211. 1303

<!212.\* DNA
<!213 D. melanogaster</pre>

-:4002-1

|     | agsascage  | cotcotcoat | accaccacct | gagcaccatc | taagotggot | itggccaa:t |
|-----|------------|------------|------------|------------|------------|------------|
| 1.  | actagogot  | cgccgggaac | agootaaogt | aaccaactgg | tggtcagcac | pagetgecat |
| 1:  | cacaaccag  | gegggateat | gataggagsg | atoggatgag | atgtggstgs | itottggogg |
| 2.  | gtottogga  | ttgtcctggg | gobaoggtot | ogtostgtac | tottetteta | ttogtgoasa |
| 3(  | gaddaatata | tgcagactgt | aatogggosa | agttotgagg | tttgctacgt | aatgtootgg |
| 3.  | pocatttact | teetggeggt | ttgatatgag | gtoggadata | atotggoodt | ttdatdadga |
| 4.  | ctggtgtcc  | gtotgtgoca | ttoggoagga | togotgggod | ogttcatggg | pogotttada |
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| 6:  | atgtacatg  | ttoootaogg | stggosacsg | gatagecoty | geatetgggt | atcatagtga |
| 6.  | gtggaggcc  | acgagaccst | cagacaggea | gaacggaacg | acgagotggt | aagatgacca |
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| 9:  | togatttgo  | tottoatoat | gtgetjeest | totgsagttt | toacaaccac | ttoggtgoda |
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Fage 1

#### 8287.10F.8T28.twt

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| atcaccaggg | gotataatog | gagtgategg  | aacacctgtg | gtoegegaet | goatcatggo  | 132. |
| aagggggatg | gtggcatggg | cadiadosaai | ctggacgccg | acyaccayya | cdadagacddc | 1381 |
| atcasscagg | agacotgtot | goodaaggag  | aagetgetga | ttatocccag | gyaquogaut  | 1441 |
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| stggtgcacg | gtggcgacca | tcagatgcac  | cagetgeage | cgtcacacca | tcaacaggtg  | 1560 |
| gagotgaoga | ggcgaatccg | ceggeggaea  | gacgagacgg | acggggatta | cotggactec  | 1620 |
| удсдасдадс | agaccgtgga | ggtgcgcttc  | agegagaege | cgttcgtcag | cacggataat  | 1680 |
| accadeggga | teageattet | ggagacgagt  | acgagtcact | gecaggaete | ggatgtgatg  | 1740 |
| qtegagetgg | gcgaggcaat | cggegeeggt  | ggtggggcag | agctggggag | gcgaatcaac  | 1800 |
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:::110. 2

%211 600
%212 PRT
%213 D. melanogaster

-:400 - 2

Met Ala Asn Leu Ser Trp Leu Ser Thr Ile Thr Thr Thr Ser Ser Ser

lle Jer Thr Ser Gln Leu Pro Leu Val Ser Thr Thr Asn Trp Ser Leu

Thr Jer Pro Gly Thr Thr Ser Ala Ile Leu Ala Asp Val Ala Ala Ser 3.5 4.0

Asp Glu Asp Arg Ser Gly Gly Ile Ile His Asn Gln Phe Val Gln Ile

Phe Phe Tyr Val Leu Tyr Ala Thr Val Phe Val Leu Gly Val Phe Gly

Asn Val Leu Val Cys Tyr Val Val Leu Arg Asn Arg Ala Met Gln Thr 85 90 95

Val Thr Asn Ile Phe Ile Thr Asn Leu Ala Leu Ser Asp Ile Leu Leu

Cys Val Leu Ala Val Pro Phe Thr Pro Leu Tyr Thr Phe Met Gly Arg 115 120

Trp Ala Phe Sly Arg Ser Leu Cys His Leu Val Cer Phe Ala Sln Sly Fage 2

|            |            |            |            |            |            |            |            |            | €.         |            | 10F.               | 2725       | .txt       |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|------------|------------|------------|------------|
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|            |            |            |            |            |            |            |            |            |            |            |                    |            |            |            |            |
| 075<br>145 | Ser        | Tle        | Tyr        | Ile        | Ser<br>181 | Thr        | Leu        | Thr        | Leu        | 78.<br>168 | Ser                | 116        | Alâ        | Tie        | Asp<br>161 |
| Arg        | Tyr        | Fhe        | Val        | 11e<br>165 | Ile        | Tyr        | P:c        | Phe        | H18<br>170 | Erc        | Arg                | Met        | Lys        | Leu<br>175 | 3e≚        |
| Thr        | Cys        | Ile        | Gly<br>180 | Ile        | Il⊕        | Val        | Ser        | Ile<br>185 | Trp        | Val        | Ile                | Ala        | Leu<br>193 | Leu        | Ala        |
| Thr        | Val        | Pro<br>195 | Tyr        | Gly        | Met        | Tyr        | Met<br>200 | Lys        | Met        | Thr        | Asr.               | Glu<br>205 | Leu        | Vāì        | Asn        |
| Gly        | Thr<br>210 | Gin        | Thr        | Gly        | Asn        | 31u<br>215 | - 44T      | Leu        | Val        | Glu        | Ala<br>220         | Thr        | Leu        | Met        | Leu        |
| Asn<br>225 | Gly        | Ser        | Phe        | Val        | Ala<br>230 | Gln        | Gly        | Ser        | Gly        | Phe<br>235 | lle                | Glu        | Ala        | Pro        | Asp<br>240 |
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| Thr        | Gly        | Pro        | Glu<br>260 | Met        | Pro        | Туг        | Val        | Arg<br>265 | Val        | Tyr        | Суз                | Glu        | Glu<br>270 | Asn        | Trp        |
| Pro        | Ser        | Glu<br>275 | Gln        | Tyr        | Arg        | Lys        | Val<br>280 | Phe        | Gly        | Ala        | Ile                | Thr<br>285 | Thr        | Tr.r       | Leu        |
| Gln        | Phe<br>290 | Val        | Leu        | Pro        | Phe        | Phe<br>295 | Ile        | Ile        | Ser        | Ile        | Су <i>в</i><br>300 | Tyr        | Val        | Trp        | Ile        |
| 3er<br>105 | Val        | Lys        | Leu        | Asn        | Gln<br>310 | Arg        | Ala        | Arg        | Ala        | Lys<br>315 | Pro                | Gly        | Ser        | Lys        | Ser<br>320 |
| Ser        | Arg        | Arg        | Glu        | Glu<br>325 | Ala        | Asp        | Arg        | Asp        | Arg<br>330 | Lys        | Lys                | Arg        | Thr        | Asn<br>335 | Arg        |
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| Asn        | Val        | Val<br>355 | Asn        | Ile        | Phe        | Asp        | Asp<br>360 | Phe        | Asp        | Asp        | Lys                | Ser<br>365 | Asr.       | Glu        | Trp        |
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| Ser<br>395 | Thr        | C;;s       | Tyr        | Asr.       | Pro<br>391 | Fhe        | Leu        | Tyr        | Ala        | Trp<br>395 | Leu                | Āsņ        | Glu        | Asr.       | Phe        |
|            |            |            |            |            |            |            |            |            |            |            | Page               | 3          |            |            |            |

### 8197.13P.3728.txt

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| Asr.       | Ile            | Ile        | Asn<br>420 | ile        | Thr        | Arg        | 3ly        | Tyr<br>428 | Asr.       | Arg        | Ser          | Asp        | Arg<br>431 | Asn        | Thr        |     |     |  |
| Cys        | Gly            | Pro<br>435 | Arg        | Leu        | His        | His        | G17<br>440 | Lys        | Gly        | Asp        | Gly          | Gly<br>445 | Met        | Gly        | Gly        |     |     |  |
| Gly        | Ser<br>450     | Leu        | Asp        | Ala        | Asp        | Asp<br>455 | Gln        | Asp        | Glu        | Asn        | Gl;<br>460   | Ile        | Thr        | Gln        | Glu        |     |     |  |
| Thr<br>455 | Cys            | Leu        | Pro        | Lys        | Glu<br>470 | Lys        | Leu        | Leu        | Ile        | Ile<br>475 | Pro          | Arg        | Glu        | Pro        | Thr<br>480 |     |     |  |
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| Arg        | Thr<br>530     | Asp        | Glu        | Thr        | Asp        | Gly<br>535 | Asp        | Tyr        | Leu        | Asp        | Ser<br>540   | Gly        | Asp        | Glu        | Gln        |     |     |  |
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| Ser        | Asp            | Val        | Met<br>580 | Val        | Glu        | Leu        | Gly        | Glu<br>585 | Ala        | Ile        | Gl;          | Ala        | Gly<br>590 | Gly        | Gly        |     |     |  |
| Ala        | Glu            | Leu<br>595 | Gly        | Arg        | Arg        | Ile        | Asn<br>600 |            |            |            |              |            |            |            |            |     |     |  |
|            | 10- 1<br>20- E | ANC        | eland      | ogas:      | ter        |            |            |            |            |            |              |            |            |            |            |     |     |  |
|            | D> 3<br>aatda  |            | oggas      | acce:      | ga aa      | caget      | ggca       | ı gat      | raada      | gage       | atc:         | tgag'      | ≘áā ∉      | atac       | godago     | £,  | · e |  |
|            |                |            |            |            |            |            |            |            |            |            |              |            |            |            | atgaga     |     |     |  |
| acg        | gtgea          | icg :      | occt:      | caaca      | ac Ja      | estga      | cato       | . aad      | acc.       | saā        | ato:<br>Page |            | ī Çā       | jast:      | gqqagn     | - " |     |  |

### RLPT.10F.0T16.txt

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| atoptohalo  | tygovatato | ggacctactt | ttatgootag | toaccatgoo | gatgabattg  | i    |
| atggagatec  | tgtccaagta | stagecetae | ggeteetget | ccatcctgtg | paaaapgatt  | 480  |
| godatgotgo  | aggeaetttg | tattttogtg | togadaatat | ccataacggc | Sattgeette  | 540  |
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| aaggagotga  | tcaacacaga | cacgooggca | otootgoago | agatoggoot | gcaggacacg  | 720  |
| atelegtait  | gcattgagga | ctggccaagt | cgcaacgggc | gottotacta | ctcgatcttc  | 790  |
| togotgtgig  | tacaatacct | ggtgcccatc | ctgatcgtct | cggtggcata | cttcgggatc  | 840  |
| tacaacaagc  | tgaagagoog | cateacegtg | gtagctatac | aggogtooto | cgctcagcgg  | 900  |
| aaggtggagc  | gggggcggcg | gatgaagege | accaactgcc | tactgatcag | categeeate  | 960  |
| atctttgg:g  | tttcttgjct | geogotgaac | tttttcaacc | tgtacgcgga | catggagege  | 1920 |
| togonggtoa  | ctcagagcat | gotagtoogo | tacgccatct | godadatgat | cggcatgagc  | 1080 |
| toogbotget  | ccaacocgtt | gototacggc | tggctcaacg | acaacttccg | taaagaattt  | 1140 |
| caagaactgc  | totgoogttg | ctcagadadt | aatgttgctc | ttaacggtca | cacgacagge  | 1200 |
| tgoawogted  | aggeggegge | gegeaagegt | cgcaagttgg | gogoogaact | ctccaaaggc  | 1260 |
| gaabtbaago  | tgotggggoo | aggoggojoo | cagagoggta | abgooggagg | ggaaggcggt  | 1320 |
| otgą iggosa | cogacttoat | gacoggodad | cacgagggcg | gactgcgcag | cgccataacc  | 1380 |
| gagtoggtog  | ocotoaogga | ccacaacccc | gtgccctcgg | aggtcaccaa | gstgatgccg  | 1440 |
| oggta       |            |            |            |            |             | 1445 |

:C210.+ 4
:C111+ 357
:C.12+ PET
:C.13(+ D. melanogaster)

<400 · 4

Met Glu Asn Thr Thr Met Leu Ala Asn Ile Ser Leu Asn Ala Thr Arg 1  $_{\rm L}$ 

Ash Glu Glu Ash Ile Thr Ser Phe Phe Thr Asp Glu Glu Trp Leu Ala 20 25 30

The Ash Gly Thr Leu Pro Trp Ile Val Gly Phe Phe Phe Gly Val Ile  $\sim$  35 - 40 - 45

kian.inF.atu8.txt

| Ala | Ile | Thi | 317 | Fhe | Ener | 317 | Asn | Leu | ieu | ··a_ |   | 1-91 | Wal | ··al | 7341 |
|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|---|------|-----|------|------|
|     | 5.0 |     |     |     |      |     |     |     |     |      |   |      |     |      |      |
|     | - · |     |     |     |      | A   |     |     |     |      | • |      |     |      |      |
|     | 100 |     |     |     |      |     |     |     |     |      |   |      |     |      |      |
|     |     |     |     |     |      |     |     |     |     |      |   |      |     |      |      |
|     |     |     |     |     |      |     |     |     |     |      |   |      |     |      |      |
|     |     |     |     |     |      |     |     |     |     |      |   |      |     |      |      |

Fhe Ash Ash Ash Met Arg Ser Thr Thr Ash Leu Met Ile Val Ash Leu 65 78 9.

Ala Ala Asp led Met Phe Val Ile Led Cys Ile Pro Phe Thr Ala 85 90 90

Thr Asp Tyr Met Val Tyr Tyr Trp Pro Tyr Gly Arg Phe Trp Cys Arg

Ser Val Gln Tyr Leu Ile Val Val Thr Ala Phe Ala Ser Ile Tyr Thr 115 120 125

Leu Val Leu Met Ser Ile Asp Arg Phe Leu Ala Val Val His Fro Ile 130 135 140

Arg Ser Arg Met Met Arg Thr Glu Asn Ile Thr Leu Ile Ala Ile Val 145 150 155 160

Thr Leu Trp Ile Val Val Leu Val Val Ser Val Pro Val Ala Phe Thr  $165 \,$   $\,$   $170 \,$   $\,$   $175 \,$ 

Met Cys Thr Phe Thr Thr Asn Asp Phe Leu Gly Pro Arg Thr Tyr Gln 195 \$200 \$205

Val Thr Phe Phe Ile Ser Ser Tyr Leu Leu Pro Leu Met Ile Ile Ser 210 220

Gly Leu Tyr Met Arg Met Ile Met Arg Leu Trp Arg Gln Gly Thr Gly 225 230 230 235

Val Arg Met Ser Lys Glu Ser Gln Arg Gly Arg Lys Arg Val Thr Arg 245 250 255

Leu Val Val Val Val Val Ile Ala Phe Ala Ser Leu Trp leu Pro Val 260 265 265

Gln Leu Ile Leu Leu Lys Ser Leu Asp Val Ile Glu Thr Asn Thr 275 280 285

Leu Thr Lys Leu Val Ile Gln Val Thr Ala Gln Thr Leu Ala Tyr Ser 290 295 300

Ser Ser Cys Ile Ash Fro led led Tyr Ala Phe led Ser Glu Ash Fhe

Arg Lys Ala Bhe Tyr Lys Ala Val Ash Dys Jer Jer Ard Tyr Bin Ash 815 - 835

Tyr Thr Ser Asp Leu Fr: Pic Fic Arg Lys Thr Ser Cys Ala Arg Thi 340 340 350

Ser Thr Thr Gly Leu

1376 -:211>

DNA

H212> H213> D. melanogaster

-:400> 5

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godotbabgg arbabaababb bytypobitby yagytbabba agotgatgob yogyta (1878)

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|---|---|---|--------|----|---|
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Met Asn Gln Thr Glu Pro Ala Gln Leu Ala Asp Gly Glu His Leu Ser 1 5 15

Gly Tyr Ala Ser Ser Ser Asn Ber Val Arg Tyr Leu Asp Asp Arg His

Pro Leu Asp Tyr Leu Asp Leu Gly Thr Val His Ala Leu Asn Thr Thr

Ala Ile Asn Thr Ser Asp Leu Asn Glu Thr Gly Ser Arg Pro Leu Asp

Pro Val Leu Ile Asp Arg Phe Leu Ser Asn Arg Ala Val Asp Ser Pro

Trp Tyr His Met Leu Ile Ser Met Tyr Gly Val Leu Ile Val Phe Gly 85 90 95

Ala Leu Gly Asn Thr Leu Val Val Ile Ala Val Ile Arg Lys Pro Ile

Met Arg Thr Ala Arg Asn Leu Phe Ile Leu Asn Leu Ala Ile Ser Asp 120 125

Leu Leu Leu Cys Leu Val Thr Met Pro Leu Thr Leu Met Glu Ile Leu 135 130

Ser Lys Tyr Trp Pro Tyr Gly Ser Cys Ser Ile Leu Cys Lys Thr Ile 145 150 150 160

Ala Met Leu Gln Ala Leu Cys Ile Phe Val Ser Thr Ile Ser Ile Thr

Ala Ile Ala Phe Asp Arg Tyr Gln Val Ile Val Tyr Pro Thr Arg Asp

Ser Leu Gln Phe Val Gly Ala Val Thr Ile Leu Ala Gly Ile Trp Ala 198 200 205

Leu Ala Leu Leu Leu Ala Ser Pro Leu Phe Val Tyr Lys Glu Leu Ile 210 220 210

### 8297.131.2T26.tmt

| Asn<br>225                   | Thr        | Asp                                   | Thr        | Pro        | Ala<br>230 | Leu        | Leu        | 31r.       | 31n        | 11e<br>135 | 31;        | Leu        | 3ln        | Asp         | Thr        |
|------------------------------|------------|---------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| Ile                          | Fro        | Tyr                                   | Cys        | Ile<br>145 | Glu        | Asp        | Trp        | Fro        | Ser        | Arq        | Asn        | Gly        | Arg        | Fhe<br>155  | Tyr        |
|                              | Ser        | ile                                   | Phe<br>26. | Ser        | Leu        | 2;;s       | Val        | Gin<br>Zes | Tyr        | Leu        | Val        | Pro        | I16<br>270 | Leu         | Ile        |
| Val                          | Ser        | Val<br>275                            | Ala        | Tyr        | Phe        | gly        | Ile<br>280 | Tyr        | Asn        | Lys        | Leu        | L;s<br>285 | Ser        | Arg         | lle        |
| Thr                          | Val<br>290 | Val                                   | Ala        | Val        | Gln        | Ala<br>295 | Ser        | Ser        | Ala        | Gln        | Arg<br>300 | Lys        | Val        | Glu         | Arg        |
| Gly<br>305                   | Arg        | Arg                                   | Met        | Lys        | Arg<br>310 | Thr        | Asn        | Cys        | Leu        | Leu<br>315 | Ile        | Ser        | Ile        | Ala         | Ile<br>320 |
| :le                          | Phe        | Gly                                   | Vai        | Ser<br>325 | Trp        | Leu        | Pro        | Leu        | Asn<br>330 | Phe        | Phe        | Asn        | Leu        | T'yr<br>335 | Ala        |
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| Tle                          | Cys        | His<br>355                            | Met        | Ile        | Gly        | Met        | Ser<br>360 | Ser        | Ala        | Cys        | Ser        | Asn<br>365 | Pro        | Leu         | Leu        |
| Tyr                          | Gly<br>370 | Trp                                   | Leu        | Asn        | Asp        | Asn<br>375 | Phe        | Arg        | Cys        | Asr.       | Val<br>380 | Gln        | Ala        | Ala         | Ala        |
| Arg<br>385                   | Lys        | Arg                                   | Arg        | Lys        | Leu<br>390 | Gly        | Ala        | Glu        | Leu        | Ser<br>395 | Lys        | Gly        | Glu        | Leu         | Lys<br>400 |
| Leu                          | Leu        | Gl;                                   | Pro        | Gly<br>405 | Gly        | Ala        | Gln        | Ser        | Gly<br>410 | Thr        | Ala        | Gly        | Gly        | Glu<br>415  | Gly        |
| Gly                          | Leu        | Ala                                   | Ala<br>420 | Thr        | Asp        | Phe        | Met        | Thr<br>425 | Gly        | His        | His        | Glu        | Gly<br>430 | Gly         | Leu        |
| Arg                          | Ser        | Ala<br>435                            | Ile        | Thr        | Glu        | Ser        | Val<br>440 | Ala        | Leu        | Thr        | Asp        | His<br>445 | Asn        | Pro         | Val        |
| Pro                          | Ser<br>450 | Glu                                   | Val        | Thr        | Lys        | Leu<br>455 | Met        | Pro        | Arg        |            |            |            |            |             |            |
| <210<br><211<br><211<br><211 | 1><br>2> : | 7<br>1073<br>DNA<br>D. m <sup>e</sup> | elan       | īgas:      | ter        |            |            |            |            |            |            |            |            |             |            |

Fage 9

#### 8197.10%.0028.txt

| <4 '\ T<br>atgg.gaaca | ccasaatqst | gystaatatt | adoptaaatg | Jaaronghaa | tyaugagaat | ś.   |
|-----------------------|------------|------------|------------|------------|------------|------|
| atca ctcat            | tottoacoga | chamiaitii | otgicoatca | atgycwettt | guogtągata |      |
| gtgg:attot            | tuttoggogt | cutogodato | augggattut | togdoaacot | dozdazowan | 1.6  |
| otgg.ggtgg            | tottoaacaa | cuacatgogo | tudaddadda | apotgatgat | tgtdaatdty | - 4  |
| gatg agatg            | atotgatgit | ogtaatooto | tgoattooct | toacggocac | ogattacatg | 300  |
| gtgtustact            | ggodatatgg | aaggttotgg | tgccgcagtg | tocagtacet | gattgtggtg | 361  |
| accg:sttcg            | cotoratota | cacgetggtg | ctaatgtoca | togatoggtt | setggeggtg | 121  |
| gtteatessa            | ttegstegeg | gatgatqaqg | acggagaaca | ttaccctgat | tgodatogtg | 450  |
| acto gtgja            | tegtagtget | gatoatttoa | gtaccaatag | cottoaccca | ogaogtggtg | 540  |
| gtggastasg            | atgcaaagaa | gaacatsacc | tacggcatgt | gcaccitcac | gacgaacgac | €00  |
| ttcc-tggtc            | cgcgcaccta | ccaggtsacc | ttottcatca | gotoctacct | gctgcccctg | 660  |
| atga:catca            | goggtotota | catgogoatg | atcatgcggc | totggogoda | gggaaccggc | 720  |
| gtocacatgt            | ccaaggagto | gcagcgcggt | cgcaagcggg | tcacccgact | cgtcgtcgtg | 780  |
| gtgg:catcg            | cattagaata | gototggotg | cotgtocago | teatectget | gctcaagtca | 840  |
| otggatgtca            | togagaogaa | caccettace | aagctagtca | tocaggtcac | cgcccagact | 900  |
| ctgg:ctaca            | gragetegtg | tatcaatccg | ctgctctacg | cettectete | cgagaatttc | 960  |
| cgga:ggcst            | totataaggo | cgttaastgc | toototogat | accagaacta | cacatotgat | 1020 |
| ttgangaaga            | cjcgcaagac | gtoctatasc | aggaceteca | ccactggact | cta        | 1073 |

·:210 · 8

.:211 357

+1212 - PRT +1213 - D. melanogaster

·:400 · 8

Met Glu Asn Thr Thr Met Leu Ala Asn Ile Ser Leu Asn Ala Thr Arg 1  $\phantom{1}$  5  $\phantom{1}$  10  $\phantom{1}$  15

Asn Glu Glu Asn Ile Thr Ser Phe Phe Thr Asp Glu Glu Trp Leu Ala 20 25 30

The Asn Gly Thr Leu Pro Trp Ile Val Gly Phe Phe Gly Val Ile 35  $-40\,$ 

Ala Ile Thr Gly Phe Phe Gly Asn Leu Leu Val Ile Leu Val Val 55  $_{\odot}$ 

Phe Asn Asn Asn Met Arg Ser Thr Thr Asn Leu Met Ile Val Asn Leu 65 78 78

### F2FT.1ME.NTLE.twt

|            |            |            |            |            |            |            |            |            |            | - •        |            |            |            |             |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| Alā.       | Ala        | Ala        | Asp        | Leu<br>-5  | Met        | File       | 731        | :1e        | Leu<br>a,  | Ŋs.        | 124        | Fro        | Pile       | 7:.x<br>9:  | Ala        |
| Thr        | Asp        | Tyr        | Met<br>191 | ∵åì        | Tyr        | 7.25       | Trp        | Pro<br>115 | T;;;       | Зly        | Arş        | Phe        | Tip        | Cys         | Arg        |
| Ser        | Val        | G.n<br>115 | Tyr        | Leu        | Ile        | Vā≟        | Tal<br>120 | Thr        | Ala        | Fhe        | Ala        | Ser<br>125 | Ile        | Tyr         | Thr        |
| Leu        | Val<br>130 | Leu        | Met        | Ser        | Ile        | Asp<br>135 | Arg        | Phe        | Leu        | Ala        | ∵al<br>140 | Vāl        | His        | Pro         | Ile        |
| Arg<br>145 | Ser        | Arg        | Met        | Met        | 150<br>Ara | Tr.r       | 314        | Asn        | Ile        | Thr<br>155 | Leu        | Ile        | Ala        | Ile         | %al<br>160 |
| Thr        | Leu        | Trp        | Ile        | Val<br>165 | Val        | Leu        | Val        | Val        | Ser<br>170 | Val        | Pro        | Val        | Ala        | Phe<br>175  | mhr        |
| Hıs        | Asp        | Val        | Val<br>180 | Val        | Asp        | Tyr        | Asp        | Ala<br>185 | Lys        | Lys        | Asn        | Ile        | Thr<br>190 | Tyr         | Gly        |
| Met        | Суѕ        | Thr<br>195 | Phe        | Thr        | Thr        | Asn        | Asp<br>200 | Phe        | Leu        | Gly        | Pro        | Arg<br>205 | Thr        | Tyr         | Gln        |
| Val        | Thr<br>210 | Phe        | Phe        | Ile        | Ser        | Ser<br>215 | Tyr        | Leu        | Leu        | Pro        | Leu<br>220 | Met        | Ile        | Ile         | Ser        |
| Gl;<br>225 | Leu        | Tyr        | Met        | Arg        | Met<br>230 | Ile        | Met        | Arg        | Leu        | Trp<br>235 | Arg        | Gln        | Glÿ        | Thr         | Giy<br>240 |
| Val        | Arg        | Met        | Ser        | Lys<br>245 | Glu        | Ser        | Gln        | Arg        | Gly<br>250 | Arg        | Lys        | Arg        | Val        | Thr<br>255  | Arg        |
| Leu        | Val        | Val        | Val<br>260 | Val        | Val        | Ile        | Ala        | Phe<br>265 | Ala        | Ser        | Leu        | Trp        | Leu<br>270 | Pro         | Val        |
| Gln        | Leu        | Ile<br>275 | Leu        | Leu        | Leu        | ьуs        | Ser<br>280 | Leu        | Asp        | Val        | Ile        | Glu<br>285 | Thr        | Asn         | Thr        |
| Leu        | Thr<br>290 | Lys        | Leu        | ''al       | Ile        | Gln<br>295 | Val        | Thr        | Ala        | Gln        | Thr<br>300 | Leu        | Ala        | Tyr         | Ser        |
| Ser<br>305 | Ser        | C;;s       | Ile        | Asr.       | Pro<br>310 | Leu        | Leu        | Tyr        | Ala        | Phe<br>315 | Leu        | Ser        | Glu        | Asr.        | Phe<br>320 |
| Arg        | Lys        | Alā        | Phe        | Tyr<br>325 | Lys        | Ala        | Val        | Asn        | 07s<br>330 | Ser        | Ser        | Arq        | Tyr        | 31r.<br>335 | Asn        |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |             |            |

Fage II

# #UMT.101.3TLB.txt Tyr Thr Ser Asp Leu Fr. Fro Fro Arg Lys Thr Ser Cys Ala Ard Thr 841 340 56.

Ser Thr Thr Sly Leu 353

| <211> | 9    |
|-------|------|
| <1115 | 1559 |
| <212> | DNA  |
| 20100 |      |

<213> D. melanogaster

| <400> 9<br>atggagaato goagtgaott | : ogaggoggat | gastasggsg | acatcagttg | gagsaattga | e î  |
|----------------------------------|--------------|------------|------------|------------|------|
| agcaactgga gcaccoccg             | : Gääcätoott | trotoggasa | tgagbagbgt | geteteages | 122  |
| agdaaccata egeccetge.            | : ggadtttggd | caggageteg | occtatecas | cagotootto | 160  |
| aatcacaged agaccetate            | c caccgaccag | scagaagtag | gggacgtgga | agacgcggcc | 240  |
| gaggatgogg oggogtoca:            | : ggagacgggc | tegtttgeat | ttgtggtccc | gtggtggcgt | 300  |
| caggigatet ggageatee             | cttaggagga   | atggtcattg | tggcgacggg | oggtaacstg | 360  |
| attyttytot ggatogtga:            | gacgaccaag   | oggatgogga | cggtaaccaa | ctatttcata | 420  |
| gtgaatotot coatogogg             | a cgccatggtg | tocagootaa | acgtcacctt | caactactac | 480  |
| tatatgotgg atagogast             | g goodttoggd | gagttotact | gsaagttgtc | ccagttcatc | 540  |
| gogatyotaa goatotgogo            | c ctcagtgttc | accetaatgg | ccatotocat | cgacagatac | 600  |
| gtggccatca tccggccact            | geageegegg   | atgagcaagc | ggtgcaacst | ggccatcgcg | 660  |
| goggtoatot ggotggoot             | c cacgotoato | tootgoocca | tgatgatcat | ctacogcacg | 720  |
| gaggaggtgo oggtoogog(            | g gottagoaad | ogdaoggtot | gotaboogga | gtggcccgat | 780  |
| gggoodabba atbabtoba             | gatggagtoc   | ototacaaca | tootoatest | catyctaacc | 840  |
| tacttcctgc ccatcgtctc            | : catgaoggto | acctactogo | gcgtgggcat | cgagototgg | 900  |
| ggatocaaga ccatcggcg             | a gtgcacgccc | cgccaggtgg | araaygtgog | gagtaagsga | 960  |
| agggtggtga agatgatga             | tgtggtegte   | otgatattog | coatotgotg | gatgaagtta | 1020 |
| cacagotact toataatca             | datectgetae  | deggesatsa | oggaggegee | cttcatccag | 1080 |
| gaactctacc tggccatct             | a stggstggss | atgagcaact | ccatgtacaa | toccattata | 1140 |
| tactgotgga tgaattogo             | g etttegetat | ggtttcaaga | tggtetteeg | ctggtgcctg | 1200 |
| tttgtgagag tgggaaatga            | a accepttagt | oggogggaga | acctgacatc | coggtactcc | 1260 |
| tgotsiggtt coccggatia            | a caatogoato | aagogcaatg | atacccagaa | atogatactt | 1320 |
| tatacetgto coageteace            | c caagtogcat | cgaatttcgc | acageggaae | aggtegeagt | 1360 |
| gogacjetge ggaacagto             | accadeadaa   | teactgtegt | coggoggate | tagtagtaga | 1441 |
| gggcacagga aacggttgt:            | c ctaccagcag | gaaatgcagc | agogttggto | aggacccaat | :511 |
| agtgocaccg cagtgacca             | i ttocagcagt |            |            | geteteetg  | 1589 |
|                                  |              |            | Fage 12    |            |      |

Fage 12

### -,297.101.0725.txt

|            | [          |            | elan:      | o∳as.      | ter        |            |             |            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <400       | ()         | · ·        |            |            |            |            |             |            |            |            |            |            |            |            |            |
| Met<br>1   | 315        | Asn        | Alg        | Jer<br>5   | Asp        | Phe        | 314         | Ala        | Asp<br>10  | Asp        | Tyr        | gly        | ąsĄ        | 15         | J.er       |
| Trp        | Ser        | Asr.       | Trp<br>20  | Ser        | Asn        | Trp        | Ser         | Thr<br>25  | Pro        | Ala        | Gly        | "al        | Leu<br>30  | Fhe        | Ser        |
| Ala        | Met        | Ser<br>35  | Ser        | Val        | Leu        | Ser        | Ala<br>40   | Ser        | Asn        | His        | Thr        | Pro<br>45  | Leu        | Pro        | Asp        |
| Phe        | Gly<br>50  | Gln        | Glu        | Leu        | Ala        | Leu<br>55  | Ser         | Thr        | Ser        | Ser        | Phe<br>60  | Asn        | His        | Ser        | Gln        |
| Thr<br>65  | Leu        | Ser        | Thr        | Asp        | Gln<br>70  | Pro        | Ala         | Val        | Gly        | Asp<br>75  | Val        | Glu        | Asp        | Ala        | Ala<br>80  |
| Glu        | Asp        | Ala        | Ala        | Ala<br>85  | Ser        | Met        | Glu         | Thr        | Gly<br>90  | Ser        | Phe        | Ala        | Phe        | Val<br>95  | Val        |
| Pro        | Trp        | Trp        | Arg<br>100 | Gln        | Val        | Leu        | Trp         | Ser<br>105 | Ile        | Leu        | Phe        | Gly        | Gly<br>110 | Met        | Val        |
| Ile        | Val        | Ala<br>115 | Thr        | Gly        | Gly        | Asr.       | Leu<br>120  | Ile        | Val        | Vāl        | Trp        | Ile<br>125 | Val        | Met        | Thr        |
| Thr        | Lys<br>130 | Arg        | Met        | Arg        | Thr        | Val<br>135 | Thr         | Asn        | Tyr        | Phe        | Ile<br>140 | Val        | Asn        | Leu        | Ser        |
| Ile<br>145 | Ala        | Asp        | Ala        | Met        | Val<br>150 | Ser        | Ser         | Leu        | Asn        | Val<br>155 | Thr        | Phe        | Asn        | Tyr        | Tyr<br>160 |
| Tyr        | Met        | Leu        | Asp        | Ser<br>165 | Asp        | Trp        | Pro         | Phe        | Gly<br>170 | Glu        | Phe        | Tyr        | Cys        | Lys<br>175 | Leu        |
| Ser        | Gln        | Phe        | Ile<br>186 | Ala        | Met        | Leu        | Ser         | Ile<br>155 | Cys        | Ala        | Ser        | Val        | Phe<br>190 | Thr        | Leu        |
| Met        | Ala        | Ile<br>195 |            | Ile        | Asp        | Arg        | T;;r<br>200 |            | Ala        | Ile        | Ile        | Arg<br>205 | Pro        | Leu        | Gln        |
| Pro        | Arg<br>210 | Met        | Ser        | Lys        | Arg        | 07s<br>215 | Asn         | Leu        | Ala        | Ile        | Ala<br>220 | Ala        | Val        | Ile        | Trp        |

Fage 13

8297.179.dT28.txt

| leu<br>225 | Alā        | Ser        | Thr        | leu        | 110        | Ser        | 2,18       | Pro        |            |            | lTP<br>Tle  |            |            | Aij        | Thr<br>14: |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| Glu        | Glu        | Val        | Fro        | 7a1<br>248 | Ārģ        | gly        | Leu        | Sei        | Asn<br>283 | Arg        | Thr         | Val        | 252        | 1.2        | Ēr.        |
| Blu        | Trp        | Pro        | Asp<br>260 | 31;        | Pro        | Thr        | Asr.       | His<br>265 | Ser        | Thr        | Met         | Flu        | 3er<br>270 | Leu        | Tyr        |
| Asn        | Ile        | Leu<br>275 | Ile        | Ile        | Ile        | Leu        | Thr<br>280 | Tyr        | Phe        | leu        | Pro         | Ile<br>285 | Val        | Ser        | Met        |
| Thr        | Val<br>290 | Thr        | Tyr        | Ser        | Arg        | ∵al<br>295 | 31;·       | Ile        | Glu        | Leu        | Trp<br>300  | Gly        | Ser        | Lys        | m'r y      |
| Ile<br>305 | Gl;        | Glu        | C;;s       | Thr        | Pro<br>310 | Arg        | Gln        | Val        | Glu        | Asn<br>315 | ∵al         | Arg        | Ser        | Lys        | Arg<br>320 |
| Arg        | Val        | Val        | Lys        | Met<br>325 | Met        | Ile        | Val        | Val        | Val<br>330 | Leu        | Ile         | Phe        | Ala        | Ile<br>335 | Cys        |
| Trp        | Leu        | Pro        | Phe<br>340 | His        | Ser        | Tyr        | Phe        | Ile<br>345 | Ile        | Thr        | Ser         | Cys        | Tyr<br>350 | Pro        | Ala        |
| Ile        | Thr        | Glu<br>355 | Ala        | Pro        | Phe        | Ile        | Gln<br>360 | Glu        | Leu        | Tyr        | Leu         | Ala<br>365 | Ile        | Tyr        | Trp        |
| Leu        | Ala<br>370 | Met        | Ser        | Asn        | Ser        | Met<br>375 | Tyr        | Asn        | Pro        | Ile        | Ile<br>380  | lyr        | Суз        | Trp        | Met        |
| Asn<br>385 | Ser        | Arg        | Phe        | Arg        | Tyr<br>390 | Gly        | Phe        | Lys        | Met        | Val<br>395 | Phe         | Arg        | Trp        | Cys        | Leu<br>400 |
| Phe        | Vāl        | Arg        | Val        | Gly<br>405 | Thr        | Glu        | Pro        | Phe        | Ser<br>410 | Arg        | Arg         | Glu        | Asn        | Leu<br>415 | Thr        |
| Ser        | Arg        | Tyr        | Ser<br>420 | Cys        | Ser        | Gly        | Ser        | Pro<br>425 | Азр        | His        | Asn         | Arg        | Ile<br>430 | Lys        | Arg        |
| Asn        | Asp        | Thr<br>435 | Gln        | Lys        | Ser        | Ile        | Leu<br>440 | Tyr        | Thr        | Cys        | Pro         | Ser<br>445 | Ser        | Pro        | Lys        |
| Ser        | His<br>450 | Arg        | Ile        | Ser        | His        | Ser<br>455 | Gly        | Thr        | Gly        | Arg        | Ser<br>460  | Ala        | Thr        | Leu        | Arg        |
| Asn<br>465 | Ser        | Leu        | Pro        | Alâ        | Glu<br>478 | Ser        | Leu        | Ser        | Ser        | Gly<br>475 | Gly         | Ser        | Gly        | Gl;        | Gl;<br>480 |
| Gly        | His        | Arg        | Lys        | Arņ        | 1eu        | Cer        | Tyr        | Glr        | Gln        |            | Met<br>Page |            | Cl.        | Ara        | Trp        |

6297.108.2025.5%t 495

450

Ser Gly Fro Ash Jer Ala Thr Ala Val Thr Ash Ser Ser Jer Thi Ala 500 - 500

Asn Thr Thr Gln Leu Leu Ser

<ult><ult><ult><u (212> INA (213> D. melanogaster

<400> 11 €0 atggagaato goaqtqaott oqaqqoqqat gaotaogqoq acatoaqttq qaqoaattqq agbaattgga gbaactggag cabbbbcgcb ggbgtbettt totoggobat gagbagbgtg 180 ototoggeca gesaccatac goototgoog gactitggec aggagotoge octatocaco agotoottoa atoabagoda gadootatod adogadottgo dogodgtogg ggadgtggaa 300 gabgbggbbg aggatgoggo ggbgtbbatg gagabgggbt bgtttgbatt tgtggtbbbg 360 tggtggcgtc aggtgctctg gagcatoctc ttcggcggca tggtcattgt ggcgacgggc 420 gytaacotga tigitgioig gaiogigatg acgaccaago ggaigoggac ggiaaccaac 480 tatttcatag tagatototo catogoggae godatggtgt coagootgaa ogtoacetto 540 aastastast asatgstyga tagsgastyg soottoggsy agttstasty saagttytes 600 payticateg egatgetaag catetgeged teagtgttea eestaatgge catetesate 660 gabagatady tygodatdat odygodadty bayddydyga tyagdaagdy ytydaaddty gosatogogy oggeoatoty gotggootoc acgeteatot estgeocoat gatgateate 720 tabogoabgy aggaggtgod ygtobgoggg btdagdaabd gbadggtotg dtadboggag 780 tygopogaty ygoocaocaa toactobacy atygagtobo totacaacat cotcatcatc attotaaoot aottootgoo batogtotoo atgaeggica estactegog egigggeate 900 yagototygy gatocaagad batoggogag tgcacgoood godaggtgga gaatgtgogg 960 1020 agtaagogaa gggtggtgaa gatgatgatt gtggtogtoc tgatattogo catotgotgg 1080 styssyttes acagetaett sataatsaca teetgetase eggecateae ggaggegee 1140 ttpatppagg aaptttacct ggppatptab tggptggcca tgagcaactb catgtabaat 1200 occatiatat actgotggat gaattogogo titogotaty giitoaagat ggiotioogo 1260 tygtgootyt ttgtgogogt yggoactgaa occtttagto gyogggagaa octgacatoo

ogytastost gotosygtto ocoggatoas aatogoatoa agogoaatga tacccagaaa

togatastit atacstytco cayotoacco aagtogoato gaattitogoa cagoggaaca

ggtogoagtg ogacyctgag gaacagtotg coggoggagt cattgtogtc cygtygatot

1320 1351

144

|                             | Wilder Still this                             |      |
|-----------------------------|---|------|
| ddyddiddad dwcacaddaa       | aciditidios rencedoedd everinedos ioddinidina | :5:: |
| ggaducaata gtgodadugu       | adtgaccaat tocaduagta oggocaacac carocaactg   | 163  |
| atataata                    |   | 1565 |
|                             |   |      |
| K2118   12<br>  K2118   522 |   |      |
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| -<213> D. melanigaste:      |   |      |

Met Glu Asn Arg Ser Asp Phe Glu Ala Asp Asp Tyr Gly Asp Ile Ser

<400> 12

Trp Ser Asn Trp Ser Asn Trp Ser Asn Trp Ser Thr Fro Ala Gly Val 20 25 30

Leu Phe Ser Ala Met Ser Ser Val Leu Ser Ala Ser Asn His Thr Pro  $-35 \\ -40 \\ -45$ 

Leu Pro Asp Phe Gly Gln Glu Leu Ala Leu Ser Thr Ser Ser Phe Asn 50 55 60

His Ser Gln Thr Leu Ser Thr Asp Leu Pro Ala Val Gly Asp Val Glu 55 70 80

Asp Ala Ala Glu Asp Ala Ala Ala Ser Met Glu Thr Gly Ser Phe Ala 85 90 95

Phe Val Val Pro Trp Trp Arg Gln Val Leu Trp Ser Ile Leu Phe Gly 100 105

Gly Met Val Ile Val Ala Thr Gly Gly Asn Leu Ile Val Val Trp Ile 115 120 125

Val Met Thr Thr Lys Arg Met Arg Thr Val Thr Asn Tyr Phe Ile Val 130  $$135\$ 

Asr. Leu Ser Ile Ala Asp Ala Met Val Ser Ser Leu As<br/>n Val Thr Phe 145 \$150\$ 155 \$160\$

Asn Tyr Tyr Tyr Met Leu Asp Ser Asp Trp Pro Phe Gly Glu Phe Tyr 165 175

Cys Lys Leu Ser Gln Phe Ile Ala Met Leu Ser Ile Cys Ala Ser Val 180 185 190

Phe Thr Leu Met Ala Ile Ser Ile Asp Arg Tyr Val Ala Ile Ile Arg 195 200 208

Fage 16

### x19".10F.2T15.tmt

|            |            |            |            |            |            |            |            |            |            | •          |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pro        | 164<br>210 | Gln        | Pro        | Arg        | Met        | 3e≱<br>115 | 1;;\$      | Arg        | Cys        | Asr.       | Leu<br>221 | Ālā        | ile        | Āla        | Āla        |
| ∵ā1<br>225 | ile        | Tip        | Leu        | Ala        | Set<br>23. | The        | leu        | 110        | Ser        | 078<br>238 | Fil        | Met        | Met        | Ile        | T14<br>14. |
| Tyr        | Arg        | Th.r       | Glu        | Glu<br>245 | Val        | Pto        | Val        | Arg        | 31;<br>250 | Leu        | Ser        | Asn        | Arg        | Thr<br>155 | Val        |
| Суз        | Tyr        | Pro        | Glu<br>260 | Trp        | Pro        | Asp        | Glγ        | Pro<br>265 | Thr        | Asn        | His        | Ser        | Thr<br>270 | Met        | Glu        |
| Ser        | Leu        | Tyr<br>275 | Asr.       | Ile        | Leu        | Ile        | Ile<br>280 | Ile        | Leu        | Thr        | Tyr        | Phe<br>285 | Leu        | Pro        | Ile        |
| Val        | Ser<br>290 | Met        | Thr        | Val        | Thr        | Tyr<br>295 | Ser        | Arg        | Val        | Gly        | Ile<br>300 | Glu        | Leu        | Trp        | Gly        |
| Ser<br>305 | Lys        | Thr        | Ile        | Gl;        | Glu<br>310 | Cys        | Thr        | Pro        | Arg        | Gln<br>315 | Val        | Glu        | Asn        | Val        | Arg<br>320 |
| Ser        | Lys        | Arg        | Arg        | Val<br>325 | Val        | Lys        | Met        | Met        | Ile<br>330 | Val        | Val        | Val        | Leu        | Ile<br>335 | Phe        |
| Ala        | Ile        | Cys        | Trp<br>340 | Leu        | Pro        | Phe        | His        | Ser<br>345 | Tyr        | Phe        | Ile        | Ile        | Thr<br>350 | Ser        | Cys        |
| Tyr        | Pro        | Ala<br>355 | Ile        | Thr        | Glu        | Ala        | Pro<br>360 | Phe        | Ile        | Gln        | Glu        | Leu<br>365 | Tyr        | Leu        | Ala        |
| Ile        | Tyr<br>370 | Trp        | Leu        | Ala        | Met        | Ser<br>375 | Asn        | Ser        | Met        | Tyr        | Asn<br>380 | Pro        | Ile        | Ile        | Tyr        |
| Cys<br>365 | Trp        | Met        | Asn        | Ser        | Arg<br>390 | Phe        | Arg        | Tyr        | Gly        | Phe<br>395 | Lys        | Met        | Val        | Phe        | Arg<br>400 |
| Trp        | Cys        | Leu        | Phe        | Val<br>405 | Arg        | Val        | Gly        | Thr        | Glu<br>410 | Pro        | Phe        | Ser        | Arg        | Arg<br>415 | Glu        |
| Asn        | Leu        | Thr        | Ser<br>420 | Arg        | Tyr        | Ser        | C;/s       | Ser<br>425 | Gly        | Ser        | Pro        | Asp        | His<br>430 | Asn        | Arg        |
| lle        | Lys        | Arg<br>435 | Asn        | Asp        | Thr        | Glr.       | Lys<br>440 | Ser        | Ile        | Leu        | Tyr        | Thr<br>445 | C;;s       | Pro        | Ser        |
| Ser        | Pro<br>450 | Lys        | Ser        | His        | Arg        | Ile<br>455 | Ser        | His        | Ser        | Gly        | Thr<br>460 | Gly        | Arg        | Ser        | Alà        |

### k197.10F.2T1E.\*\*\*

| Thr | Leu Arg | Ası. | 2€1 | 16.1 | F : 1 | Ala | 11:1 | 261 | Lest | 2-1 | 2 | 11.7 | 34.7 | 3.01 |
|-----|---------|------|-----|------|-------|-----|------|-----|------|-----|---|------|------|------|
|     |         |      |     |      |       |     |      |     |      |     |   |      |      |      |
| 400 |         |      |     | -1   |       |     |      |     | -1   |     |   |      |      | 4.7. |

Gly Gly Gly Gly His Arg Lys Arg Leu Ser Tyr Gln Gln Glu Met Gln 485 491 495

Gin Arg Trp Ger Gly Pro Asn Ser Ala Thi Ala Val Thr Asn Ser Ser 500 505 510

Ser Thr Ala Asn Thr Thr Sin Leu Leu Ser 515 520

<210> 13
(211> 1394
(312> DNA
(213> D. melanogaster

:400> 13

| :tggagcacc | acaatagcca | tetgttgeet | ggtggcagcg | agaagatgta  | ctacataget | 60   |
|------------|------------|------------|------------|-------------|------------|------|
| naccagoago | cgatgctgcg | gaacgaggat | gataastacc | aggaggggta  | cttcatcagg | 120  |
| seggascotg | catoottast | ttacaatacc | accgsactge | cagoggacga  | tgaagggtcc | 180  |
| aactatggat | atggotocac | cacaacgete | agtggootoo | agttcgagac  | ctataatatc | 240  |
| actgtgatga | tgaactttag | ctgtgacgac | tatgacette | tatoggagga  | catgtggtct | 300  |
| agtgostact | ttaagatsat | egtetacatg | ctctacattc | ocatotitat  | cttcgccstg | 360  |
| itoggsaacg | gaacggtotg | ctatatogto | tattocacac | etegeatgeg  | casggtcacc | 420  |
| aattaottta | tagocagott | ggccatcggc | gacatoctga | tgtoottott  | etgegttaeg | 480  |
| togtoottoa | telegetytt | catcotgaac | tactggcctt | tiggseigge  | sotstgtsac | 540  |
| tttgtgaact | actogoaggo | ggtotcagtt | ctggtpagpg | octatactit  | ggtggcaatt | €00  |
| agcattgacc | gotacatajo | cattatgtgg | ccattaaagc | cacgoatcac  | aaaacgctat | 660  |
| godaodttoa | teategoogg | ogtitggitt | attgcacttg | ccaccgcast  | toppatacco | 720  |
| atogtototg | gastogasat | cocaatgtog | cogtggcaca | ogaaatgoga  | gaaatacatt | 780  |
| tgoogogaaa | tgtggccgtd | goggaogoag | gagtactact | acadootgto  | sciettegeg | 840  |
| otgoagttog | togtgoogst | gggegtgete | atottpacst | abgoboggat  | cascattege | 900  |
| jtotgjgoga | aacgaccgcc | aggegaggeg | gaaassaass | gogaodagog  | gatggcacgc | 960  |
| tocaaacgga | agatggtcaa | aatgatgotg | acggttgtga | ttgtgtttaac | stgstgttgg | 1025 |
| stgossttsa | atattttgca | gottttactg | aacgacgagg | agttogooca  | ctgggatcct | 1080 |
| styssytatg | tatggttogo | gtttcactgg | ctggcsatgt | ogcastgstg  | ctacaatccg | 1140 |
| atcatotact | gctacatgaa | agasagttta | aggagcggat | togtocagot  | gatgcaccgt | 1200 |
| atgeceggee | tgcgtcgctg | gtgctgcctg | eggagegteg | gtgatcgcat  | gaacqcaact | 1260 |
| teeggaaegg | gtocageact | toototoaat | ogaatgaaca | catecaceae  | ctacateage | 1341 |

Eage 18

### FIRT.ITE.UTLF.twt

| gotugtngaa agodaogago gadatutttg ogagogáano váttatváty vygvya mady                 | 134. |
|--|------|
| toacoaotgo gata  | 13-4 |
| <2115 14<br><2115 464<br><2125 PRT<br><1135 D. melanugaster                        |      |
| <460% 14   |      |
| Met Glu His His Asn Ser His Leu Leu Pro Sly Sly Ser Glu Lys Met<br>1 5 13          |      |
| Tyr Tyr Ile Ala His Gln Gln Pro Met Leu Arg Asn Glu Asp Asp Asn<br>20 - 25 - 30    |      |
| Tyr Gln Glu Gly Tyr Phe Ile Arg Pro Asp Fro Ala Ser Leu Leu Tyr<br>35 40 45        |      |
| Asn Thr Thr Ala Leu Pro Ala Asp Asp Glu Gly Ser Asn Tyr Gly Tyr 10 55 60           |      |
| Gly Ser Thr Thr Thr Leu Ser Gly Leu Gln Phe Glu Thr Tyr Asn Ile<br>65 70 75 80     |      |
| Thr Val Met Met Asn Phe Ser Cys Asp Asp Tyr Asp Leu Leu Ser Glu<br>85 90 95        |      |
| Asp Net Trp Ser Ser Ala Tyr Phe Lys Ile Ile Val Tyr Met Leu Tyr<br>100 105 110     |      |
| Tie Pro Ile Phe Ile Phe Ala Leu Ile Gly Asn Gly Thr Val Cys Tyr<br>115 120 125     |      |
| Ile Val Tyr Ser Thr Pro Arg Met Arg Thr Val Thr Asn Tyr Phe Ile<br>130 135 140     |      |
| Ala Ser Leu Ala Ile Gly Asp Ile Leu Met Ser Phe Phe Cys Val Pro<br>145 150 155 160 |      |
| Ser Ser Phe Ile Ser Leu Phe Ile Leu Asn Tyr Trp Pro Phe Gly Leu<br>165 170 175     |      |
| Ala Leu Cys His Phe Val Asn Tyr Ser Gln Ala Val Ser Val Leu Val<br>180 185 190     |      |
| Ser Ala Tyr Thr Leu Val Ala Ile Ser Ile Asp Arg Tyr Ile Ala Ile<br>195 - 201 - 205 |      |

Fage 19

#### 81.97.17F.8T18.txt

| Met | Trp   | Fro | Leu | Lys | Fro | Arg | ile | Thr | Lys | Arg | 772        | Ala | Thr | Ei.e | 110 |
|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|-----|-----|------|-----|
|     | ~ ~ ~ |     |     |     |     |     |     |     |     |     |            |     |     |      |     |
|     |       |     |     |     |     |     |     |     |     |     | <u>-</u> - |     |     |      |     |

#### Tie Ala Bly Val Trp Ehe Tie Ala Leu Ala Thr Ala Leu Fro Tie Ero 228 - 235 - 240

## Ile Val Ser Gly Leu Asp Ile Pro Met Ser Pro Trp His Thr Lys Cys 245 \$250 \$250

### Arg Pro Pro Gly Glu Ala Glu Thr Asn Arg Asp Gln Arg Met Ala Arg 305 310 315 320

Ser Lys Arg Lys Met Val Lys Met Met Leu Thr Val Val Ile Val Phe 
$$325$$
  $330$   $335$ 

Thr Cys Cys Trp Leu Pro Phe Asn Ile Leu Gin Leu Leu Leu Asn Asp 
$$34\, \rm \tilde{0}$$

Glu Glu Phe Ala His Trp Asp Pro Leu Pro Tyr Val Trp Phe Ala Phe 355 
$$$361$$$

## His Trp Leu Ala Met Ser His Cys Cys Tyr Asn Pro Ile Ile Tyr Cys 370 375 380

### Tyr Met Asn Ala Arg Phe Arg Ser Gly Phe Val Gln Leu Met His Arg 385 \$390\$ \$395\$ 400

### Met Pro Gly Leu Arg Arg Trp Cys Cys Leu Arg Ser Val Gly Asp Arg 405 $\phantom{0000}405$ $\phantom{00000}415$

Met Asn Ala Thr Ser Gly Thr Gly Pro Ala Leu Pro Leu Asn Arg Met 
$$420$$
  $425$   $430$ 

Ser Leu Arg Ala Asn Pro Leu Ser Cys Gly Glu Thr Ser Pro Leu Arg 450 
$$$460$$$

<210> 15

### k297.109.2025.txt

|                             |                          | 629T.      | 109.2725.tx        | •••<br>•            |       |
|-----------------------------|--------------------------|------------|--------------------|---------------------|-------|
| <211> 1556                  |                          |            |                    |                     |       |
| (212) DNA                   |                          |            |                    |                     |       |
| :213> I. melanugaste        | 2                        |            |                    |                     |       |
| _                           |                          |            |                    |                     |       |
| k400x 15                    |                          |            |                    |                     |       |
| städäädsass asaatadesa      | totättäset               | gatgadagag | adaadaldia         | ប្រាស់ជាស្រាធ្វាប់។ | * .   |
| saccagcags cdatgctgcg       | 795 175 175 <sup>‡</sup> | 4542544217 |                    |                     |       |
|                             | America America          | gacamocaco |                    | 0000000000          |       |
| :oggkocotg catcottaut       | ttacaatacc               | accgcactgc | cagoggacga         | tgaagggtee          | 1-1   |
|                             |                          |            |                    |                     |       |
| lactatggat atggctccac       | cacaacgctc               | agtggcctcc | agttcgagac         | stataatats          | 241   |
|                             |                          | *******    | ******             |                     | 3.1.1 |
| ectgigatga tgaactttag       | atgtgadgad               | tatgatette | tatuggagga         | Cargrageer          | 2     |
| agtgoctact ttaagatcat       | agtetacatg               | ststacatta | ccatctttat         | attegeesta          | 360   |
| .909101401 00443            | - 5 5                    |            |                    | ,                   |       |
| itoggcaacg gaacggtotg       | otatatogto               | tattocacao | ctogoatgog         | cacggtcacc          | 420   |
|                             |                          |            |                    |                     |       |
| Hattastita tagodagott       | ggccatuggc               | gacateetga | tgtccttctt         | atgagttaag          | 480   |
| rostuattos totogotatt       | datootaaas               | tactrocctt | ttageetage         | actatatasc          | 540   |
| togtwattoa totogotytt       | caccecyaas               | tabeygoddi | erggeerge          | Jecorgesae          | 0.17  |
| stigligaadt actogoaggo      | ggtctcagtt               | stagtcageg | cctatacttt         | ggtggcaatt          | 600   |
|                             |                          |            |                    |                     |       |
| agcattgass gotacatags       | cattatgtgg               | ccattaaagc | cacgoatoac         | aaaacgctat          | 660   |
|                             |                          |            |                    |                     | 700   |
| gosadsttsa toatogoogg       | cgtttggttt               | attgcacttg | ceaeegeaet         | toccatadoc          | 720   |
| atogtototy gaotogacat       | cocastatoa               | poataacaca | ngaaatgoga         | gaaatacatt          | 780   |
| actycocy gastogasac         | 300440,009               |            | -,,-               | ,                   |       |
| tgoogogaaa tgtggoogto       | goggaogoag               | gagtactact | acaccctgtc         | actattagag          | 840   |
|                             |                          |            |                    |                     |       |
| atgoagttog togtgoogst       | gggcgtgctc               | atottoacct | acgeceggat         | caccattogo          | 900   |
|                             | 2002232020               |            |                    | astaansoan          | 9€0   |
| gtstøggoga aacgacsgcs       | aggugaggug               | gaaassaass | gogascagog         | gacgglange          | 500   |
| tobawaogga agatggtbaa       | aatqatqctq               | acggttgtga | ttgtgttcac         | otgotattag          | 1020  |
|                             |                          |            |                    |                     |       |
| otgodottoa atattttgda       | gottttadtg               | aacgacgagg | agttogocca         | ctgggatdct.         | 1080  |
|                             |                          |            |                    | 25222522            | 1110  |
| otgoogtaty tgtggttogo       | guutadatyy               | orggodary. | ogbablybeg         | Glacaatoog          | 1140  |
| atbatistast gotacatgaa      | cacesattte               | addadcodat | togtocagot         | gatgeacegt          | 1200  |
| a contract groups and group | ~5~5                     | -99-9-99   |                    | 9 9 9-              |       |
| atgodoggod tgdgtdgotg       | gtgatgaatg               | aggagagtag | gtgatcgcat         | gaacgcaact          | 1260  |
|                             |                          |            |                    |                     |       |
| tooggtgaga tgastabgaa       | gtaccatogo               | catgteggeg | atgccctatt         | coggaaaccc          | 1320  |
|                             |                          | taatataaat | ~~~~ + ~~~ ~ ~ ~ ~ | catocacoac          | 1380  |
| aaaatatgsa ttaggaasgg       | guudayaadt               |            | uyaatyaada         | catedateat          | 1000  |
| stabatoago gotogtogaa       | adocacdado               | gacatotttg | cqaqcqaacc         | cattatcata          | 1440  |
|                             | J = J <b>5</b> *-        | 3          | J J J 1            | - 5                 |       |
| oggogagaog toaccaptgo       | ggtagctgtc               | atatcaaaaa | ataaaactga         | ttcaccggtg          | 15%   |
|                             |                          |            |                    |                     |       |
| ugosgatogg gaagotoagg       | tggaacagaa               | gcaaacataa | gaagcaccga         | gttttg              | 1556  |
|                             |                          |            |                    |                     |       |
|                             |                          |            |                    |                     |       |

<210> 16 <211> 518 <212> PRT <213> D. melanogaster

<400> 16

Met 31d His His Ash Ser His Led Led Fib 31y 31y Ser 31d Lys Met 1 5

Tyr Tyr Ile Ala His Gln Gln Bro Met Leu Arg Asn Glu Asp Asp Asn 10

Tyr Gin Glu Sly Tyr Phe Ile Arg Pro Asp Pro Ala Ser Leu Leu Tyr 35 40 45

Asn Thr Thr Ala Leu Pro Ala Asp Asp Glu Gly Ser Asn Tyr Gly Tyr 50 60

Gly Ser Thr Thr Thr Leu der Gly Leu Glin Fhe Gliu Thr Tyr Asin Ile 65  $^{-7.0}$ 

Thr Val Met Met Asn Phe Ser Cys Asp Asp Tyr Asp Leu Leu Ser Glu

Asp Met Trp Ser Ser Ala Tyr Phe Lys Ile Ile Val Tyr Met Leu Tyr 100 105 110

Ile Pro Ile Phe Ile Phe Ala Leu Ile Gly Asn Gly Thr Val Cys Tyr 115 120

Ile Val Tyr Ser Thr Pro Arg Met Arg Thr Val Thr Asn Tyr Phe Ile 135

Ala Ser Leu Ala Ile Gly Asp Ile Leu Met Ser Phe Phe Cys Val Pro

Ser Ser Phe Ile Ser Leu Phe Ile Leu Asn Tyr Trp Pro Phe Gly Leu

Ala Leu Cys His Phe Val Asn Tyr Ser Gln Ala Val Ser Val Leu Val 180 185 190

Ser Ala Tyr Thr Leu Vai Ala Ile Ser Ile Asp Arg Tyr Ile Ala Ile 195 200 205

Met Trp Pro Leu Lys Pro Arg Ile Thr Lys Arg Tyr Ala Thr Phe Ile

Ile Ala Gly Val Trp Phe Ile Ala Leu Ala Thr Ala Leu Pro Ile Pro

Ile Val Ser Gly Leu Asp Ile Pro Met Ser Pro Trp His Thr Lys Cys 245 250

Glu Lys Tyr Ile Cys Arg Glu Met Trp Pro Cer Arg Thr Gln Glu Tyr Fage 22

|          |  | • | + | - | • | ٠. | - | <br> |   | <br> |  |
|----------|--|---|---|---|---|----|---|------|---|------|--|
|          |  |   |   |   |   |    |   |      |   |      |  |
|          |  |   |   |   |   |    |   |      |   |      |  |
|          |  |   |   |   |   |    |   |      |   |      |  |
| <u> </u> |  |   |   |   |   |    |   |      | - |      |  |
|          |  |   |   |   |   |    |   |      |   |      |  |

| Tyr        | Tyr         | Thr<br>208 | Leu        | der        | lea        | Fi.e       | Ala<br>261 | Leu        | 31:.       | Fl.e       | Val        | Val<br>265 | Fro        | Leu        | 325        |
|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| "al        | Leu<br>290  | lle        | Phe        | Thr        | Tyr        | Ala<br>295 | Arg        | ile        | Thr        | Ile        | Arg<br>311 | ∵ai.       | Trp        | Ala        | lys        |
| Arg<br>305 | Pro         | Pro        | Gly        | Glu        | Ala<br>310 | Blu        | Thr        | Asn        | Arg        | Asp<br>315 | Gin        | Arg        | Met        | Ala        | Arg<br>320 |
| Ser        | Lys         | Arg        | Lys        | Met<br>325 | Val        | Lys        | Met        | Met        | Leu<br>330 | Thr        | Val        | Val        | ile        | Val<br>335 | Fhe        |
| Thr        | Cys         | Cys        | Trp<br>340 | Leu        | Pro        | Phe        | Asr.       | T1e<br>345 | Leu        | Gln        | Leu        | Leu        | Leu<br>350 | Asr.       | Asp        |
| Glu        | Glu         | Phe<br>355 | Ala        | His        | Trp        | Asp        | Pro<br>360 | Leu        | Pro        | Tyr        | Val        | Trp<br>365 | Fhe        | Ala        | Phe        |
| His        | Trp<br>370  | Leu        | Ala        | Met        | Ser        | His<br>375 | Cys        | Cys        | Tyr        | Asn        | Pro<br>380 | Ile        | Ile        | Tyr        | Cys        |
| Tyr<br>385 | Met.        | Asn        | Ala        | Arg        | Phe<br>390 | Arg        | Ser        | Gly        | Phe        | Val<br>395 | Gln        | Leu        | Met        | His        | Arg<br>400 |
| Met        | Pro         | Gly        | Leu        | Arg<br>405 | Arg        | Trp        | Суѕ        | Cys        | Leu<br>410 | Arg        | Ser        | Val        | Gly        | Asp<br>415 | Arg        |
| Met        | Asr.        | Ala        | Thr<br>420 | Ser        | Gly        | Glu        | Met        | Thr<br>425 | Thr        | Lys        | Tyr        | His        | Arg<br>430 | His        | Val        |
| Gly        | Asp         | Ala<br>435 | Leu        | Phe        | Arg        | L∵s        | Pro<br>440 | Lys        | Ile        | C;/s       | Ile        | Arg<br>445 | Asn        | Gly        | Ser        |
| Ser        | Th.r<br>450 | Ser        | Ser        | Gln        | Ser        | Asn<br>455 | Glu        | His        | Ile        | His        | His<br>460 | Leu        | His        | Gln        | Arg        |
| Ser<br>465 | Ser         | iys        | Ala        | Thr        | Ser<br>470 | Asp        | Ile        | Phe        | Ala        | Ser<br>475 | Glu        | Pro        | Ile        | Ile        | Met<br>480 |
| Arg        | Arg         | Asp        | Val        | Thr<br>485 | Thr        | Ala        | Val        | Ala        | Val<br>490 | Ile        | Ser        | Lys        | Asn        | Lys<br>495 | Thr        |
| Asp        | Ser         | Pro        | Val<br>500 | Arg        | Arg        | Ser        | 3ly        | Ser<br>505 | Ser        | Gly        | Gl;        | Thr        | Glu<br>510 | Alā        | Asr.       |
|            |             |            |            |            |            |            |            |            |            |            |            |            |            |            |            |

Ile Arg Ser Thr Glu Phe 515

### <29".10F.3T18.txt</pre>

| <210> 17<br><211> 1608<br><212> ENA<br><213> D. melanogaster                  |             |
|---|-------------|
| <400> 17<br>atggpaatgg acttaatoga yeaggagtoo ogostggaat tootgoodgg aguogaggag | $\vec{e}$ . |
| gaagsagaat tigagogiot ataogoggot osogotgaga tigitggosot gitgiosatt            | ·           |
| ttotatgggg gaarbagtat ogtggbogto attggbaaba otttggtbat otgggtggtg             | 150         |
| godaogasca ggdaaatgeg gacegtgada aatatgtata tegetaattt ggettittgee            | 240         |
| gatgigatia tiggootott oigoataoca titoagitoo aggoigocci goigoagagi             | 30.         |
| tggaacotgo ogtggtteat digeagette igeseetteg toeaggeeet gagigtaaat             | 360         |
| gtotoggtat toacqotgae egocattyca atogatogge atagggocat cattaatoca             | <b>1</b> 2. |
| ottagggeae gtoecaccaa gttogtatog aagttoataa ttggtggaat ttggatgotg             | 480         |
| geoetystat tigsggtges ettigeeast geettiegig iggaggagit gaesgaaaga             | 540         |
| tttojojaja acaatjagao otabaatjig apgoggobat totgbatgaa baagaabbta             | 600         |
| toogatgate aattgbaato otttogotae accotggttt ttgtgoagta totggttoca             | 650         |
| ttotytytoa toagotttyt otabatobay atgyogytab gattytyggg cacaogtyct             | 720         |
| ootgytaacg cacaggatto acgggacata acgotgttga aaaacaagaa gaaggtcatc             | 780         |
| aaaatgotga ttatogtggt cattatottt ggastotgot ggotgosadt goagototat             | 840         |
| aatattotyt atgicaogat acoggaaato aacgactaco acttoattag catogtotgg             | 900         |
| ttttgotgog attggotggo catgagoaat agotgotaca atcootttat ttatggoato             | 9.60        |
| tadaatjaaa aatttaagoj ggaattoaad aagogaittg oggootgitt oigoaagitto            | 1020        |
| aagabjagba tygaegbeea egaaaggabe tiittegatgb acacbegege cagetecata            | 1080        |
| aggicaacot apgecaacto etogatgoga atcoggagta atctotttgg teeggegegt             | 1140        |
| ggtggtgtba abaatgggaa geogggettg batatgoogb gggtgbatgg atboggtgbt             | 1200        |
| aabajojgba titabaabgy aagtagijjy bagaabaaba atgibaatgg bbaabatbat             | 1250        |
| cagcatcasa gogtgyttac otttgogycc sottogggtg tttoggoacc aggtgttggc             | 1320        |
| gitgoaatgo ogcogtggog gogaaacaac itoaaaccio tgcatcogaa ogtaatogaa             | 1331        |
| tgogaggapg apgtggpact catggagptg pratcaacca pgccpcccag cgaggagttg             | 1440        |
| goatoogggg coggagtooa gttggcootg ctaagoaggg agagetecag ctgcatttgc             | 1500        |
| gaacaggaat ttggcagosa aasogaatgs gatggsacst gcatactcag cgaggtgtog             | 15-50       |
| sgagtssase tgeocoggete geaggegaag gacaaggatg ogggeaagte ettgtggeaa            | 1620        |
| ccasttta  | 1628        |

### -23".12F.2T.8.+xt

| <211<br><211<br><211<br><211 | . S   1<br>  S   1 | 16<br>842<br>887<br>1. me | - LaX.     | igast        | : #1       |            |            |            |            |            |            |            |            |            |            |
|------------------------------|--------------------|---------------------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <400                         |                    |                           |            |              |            |            |            |            |            |            |            |            |            |            |            |
| Met<br>1                     | Ala                | Met                       | Asp        | Leu<br>S     | Ile        | Glu        | 31n        | 315        | Sei        | Arg        | Leu        | 314        | Fhe        | Leu<br>15  | Pro        |
| Gly                          | Ala                | Glu                       | Glu<br>20  | Glu          | Ala        | Glu        | Phe        | Glu<br>25  | Arq        | Leu        | Tyr        | Ala        | Ala<br>30  | Pro        | Ala        |
| Glu                          | Ile                | Val<br>35                 | Ala        | Leu          | Leu        | Ser        | Tie        | Phe        | ~ 1 ~      | Gly        | Gl;        | T1e        | Ser        | 110        | Tal        |
| Ala                          | Val<br>50          | Ile                       | Gly        | Asn          | Thr        | Leu<br>55  | Vāl        | Ile        | Trp        | Val        | Val<br>60  | Ala        | Thr        | Thr        | Arg        |
| Gln<br>65                    | Met                | Arg                       | Thr        | Val          | Thr<br>70  | Asn        | Met        | Tyr        | Ile        | Ala<br>75  | Asn        | Leu        | Aìa        | Phe        | Ala<br>80  |
| Asp                          | Val                | Ile                       | Ile        | Gly<br>85    | Leu        | Phe        | Суз        | Ile        | Pro<br>90  | Phe        | Gln        | Phe        | Gln        | Ala<br>95  | Ala        |
| Leu                          | Leu                | Glr.                      | Ser<br>100 | Trp          | Asn        | Leu        | Pro        | Trp<br>105 | Phe        | Met        | Суз        | Ser        | Phe<br>110 | Cys        | Pro        |
| Phe                          | Val                | Glr.<br>115               | Ala        | Leu          | Ser        | Val        | Asn<br>120 | Val        | Ser        | Val        | Phe        | Thr<br>125 | Leu        | Thr        | Ala        |
| Ile                          | Ala<br>130         | Ile                       | Asp        | Arg          | His        | Arg<br>135 | Ala        | Ile        | Ile        | Asn        | Pro<br>140 | Leu        | Arg        | Ala        | Arg        |
| Pro<br>145                   | Thr                | Ľуs                       | Phe        | Val          | Ser<br>150 | Lys        | Phe        | Ile        | Ile        | Gly<br>155 | Glÿ        | Ile        | Trp        | Met        | Leu<br>160 |
| Ala                          | Leu                | Leu                       | Phe        | Ala<br>165   | Val        | Pro        | Phe        | Ala        | Ile<br>170 | Ala        | Phe        | Arg        | Val        | Glu<br>175 | Glu        |
| Leu                          | Thr                | Glu                       | Arg<br>180 | Phe          | Arg        | Glu        | Asn        | Asn<br>185 | Glu        | Thr        | Tyr        | Asn        | Val<br>190 | Thr        | Arg        |
| Pro                          | Phe                | Cys<br>195                | Met        | Asn          | Lys        | Asn        | Leu<br>200 | Ser        | Asp        | Asp        | Gln        | Leu<br>205 | Gln        | Ser        | Phe        |
| Arg                          | Tyr<br>210         | Thr                       | Leu        | Val          | Phe        | Val<br>215 | Gln        | Tyr        | Leu        | Val        | Pro<br>220 | Phe        | Cys        | Val        | Ile        |
| Ser<br>225                   | Phe                | Val                       | Tyr        | : <u>l</u> e | 31n<br>230 | Met        | Ālā        | Vāl        | Frā        | 1eu<br>135 | Trp        | 317        | Thr        | Arg        | Ala<br>241 |

### FL97.10E.STL8.twt

| Pro        | Gly        | Asn        | Ala        | Gln<br>248 | Asp        | Jer        | Arg        | Ąsp        | 104        | Thr        | Leu        | Leu        | Lys        | Asn<br>188 | Lys        |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Lys        | Lys        | Val        | Ile<br>260 | Lys        | Met        | Leu        | Ile        | Ile<br>165 | Val        | Val        | Ile        | Ile        | Phe<br>270 | Jly        | Leu        |
| Cys        | Trp        | Leu<br>275 | Pro        | Leu        | Gln        | Leu        | 77r<br>280 | Asn        | Ile        | Leu        | Tyr        | Val<br>285 | Thr        | Ile        | Pro        |
| Glu        | Ile<br>290 | Asn        | Asp        | Tyr        | His        | Phe<br>295 | Il∈        | Ser        | Ile        | Val        | Trp<br>300 | Phe        | Cys        | Cys        | Asp        |
| Trp<br>305 | Leu        | Ala        | Met        | Ser        | Asn<br>310 | Ser        | Сув        | Tyr        | Asn        | Pro<br>315 | Ph€        | Ile        | Tyr        | Gly        | Ile<br>320 |
| Tyr        | Asn        | Glu        | Lys        | Phe<br>325 | Lys        | Arg        | Glu        | Phe        | Asn<br>330 | Lys        | Arg        | Phe        | Ala        | Ala<br>335 | Cys        |
| Phe        | Cys        | Lys        | Phe<br>340 | Lys        | Thr        | Ser        | Met        | Asp<br>345 | Ala        | His        | Glu        | Arg        | Thr<br>350 | Phe        | Ser        |
| Met        | His        | Thr<br>355 | Arg        | Ala        | Ser        | Ser        | I1∈<br>360 | Arg        | Ser        | Thr        | Туг        | Ala<br>365 | Asn        | Ser        | Ser        |
| Met        | Arg<br>370 | Ile        | Arg        | Ser        | Asn        | Leu<br>375 | Phe        | Gly        | Pro        | Ala        | Arg<br>380 | Gly        | Gly        | Val        | Asn        |
| Asn<br>385 | Gly        | Lys        | Pro        | Gly        | Leu<br>390 | His        | Met        | Pro        | Arg        | Val<br>395 | His        | Gly        | Ser        | Gly        | Ala<br>400 |
| Asn        | Ser        | Gly        | Ile        | Tyr<br>405 | Asn        | Gly        | Ser        | Ser        | Gly<br>410 | Gln        | Asr.       | Asn        | Asn        | Val<br>415 | Asn        |
| Gly        | Gln        | His        | His<br>420 | Glr.       | His        | Gln        | Ser        | Val<br>425 | Val        | Thr        | ₽he        | Ala        | Ala<br>430 | Thr        | Pro        |
| Gly        | Val        | Ser<br>435 | Alâ        | Pro        | Gly        | Val        | Gly<br>440 | Val        | Ala        | Met        | Pro        | Pro<br>445 | Trp        | Arg        | Arg        |
| Asn        | Asn<br>450 | Phe        | Lys        | Pro        | Leu        | His<br>455 | Pro        | Asn        | Val        | Ile        | Glu<br>460 | Cys        | Glu        | Asp        | Asp        |
| Val<br>465 | Ala        | Leu        | Met        | Glu        | Leu<br>470 | Pro        | Ser        | Thr        | Thr        | Pro<br>475 | Pro        | Ser        | Glu        | Glน        | Leu<br>460 |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |

### 6297.13F.8T2F.txt

| Ser | 073 | Tie | Cys | Glu | 31:. | 314 | Phe | Gly | Ser | Gln | Thr | 314 | $C_{\mathcal{F}}^{s}$ | Asp | 317 |
|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|
|     |     |     | 500 |     |      |     |     | 500 |     |     |     |     | 51.                   |     |     |

Thr Dys Ile Leu Ser Glu Val Per Arg Val His Leu Pro Gly Ser Gln 515 525

Ala Lys Asp Lys Asp Ala 3ly Lys Ser Leu Trp 3ln Fro Leu 530 -530

<210 · 19 <211 · 1451 <212 · DNA

<213 · D. melanogaster

<400 - 19

60 atgittacyt ggotgatgat ggatgiodic cagittigiga aaggggaaat gacagoogat tragaggesa atgoracasa ttggtataso argaargaga gottatatar carggaartg 120 aaccatagat ggattagtgg tagttobaba attbagbbag aggagtbbbt ttatggbabt 180 240 gattigodda detateaaea tigeatagee aegoggaatt cottigotga etigiteaet 300 griggrigorist adagaterize grigoatitatic grantiatitis grandaccoor grigatorias 360 grightightigo goththibbaa aatgbaaabg ghbacgaata tahatatoot gaatbiggog 420 gigginagang agignitinot gatiggaata nontitotgo tigtacacaat gogaattitgo 480 agotygogat toggggagtt tatgtgbaaa gobtabatgg tgagbabatb batbabbtbb 540 todapotego egattititet geteatoatg teogeggate gatatatage ggtatgeeae obgatotoot ogodaegata togalototg batattgoba alagtygtoto agegattgob 500 660 tygtbaactt cagoggtoot catgotycoc gtgatocttt atgocagoac tgtggagoag gaggatggca teaattacte gtgcaacata atgtggccag atgcgtacaa gaagcatteg 720 780 ggoappadet toatactgta cacattttto ptaggattog opacadoget gtgotttato stgagtttest actasttggt tataaggaaa stgegategg tgggteecaa accaggaaeg 840 aagtocaagg agaagaggog ggotoacagg aaggtoacto gaotggtact gaoggtgata 900 agtytatada ttotatytty yotosotoad tygatttoto agytygodot gattoadtog 960 aatobogogo aaagggabet otoobgabtg gaaatabtba tittobtabt toigggggba 1020 1080 obgitttast ogaattoggs ggtgaatsss atactttatg sottsstaag tgagaacttc 1140 oggaagagit tottoaaggo otttacotgt atgaataago aggatatoaa ogotoaacto capotygago coaptytttt baccaaabay ygoaytaasa ayagyyytyy otocssayoyo 1260 etgitgaesa geaateegea gatteeteea etgetgeeae tgaatgeggg taasaacaat tratogadra dracatorto gaccacgada goggadadaa doggadarrad ggggadadag aaatoatgsa attosaatgg saaagtgada gotoogoogg agaatttgat tatatgtttg

### <290.10F.ST28.txt

| agogagoa                                 | go ayga        | ggdatt t       | tg:ac:a:       | :: 3:        |            | ar<br>Ngay |             |            |            | ątą.       | oagoag            |      |
|--|----------------|----------------|----------------|--------------|------------|------------|-------------|------------|------------|------------|-------------------|------|
| acagattt                                 | gt a           |                |                |              |            |            |             |            |            |            |                   | 145. |
| :210> 2<br>:211> 4<br>:212> P<br>:213> D | ±3<br>RT       | ogaster        |                |              |            |            |             |            |            |            |                   |      |
| 14000 2                                  | Ĵ              |                |                |              |            |            |             |            |            |            |                   |      |
| Met Phe                                  | Thr Trp        | leu Met<br>5   | Met Asp        | r Val        | Leu<br>10  | Gln        | Phe         | Val        | Lys        | Gly<br>15  | Glu               |      |
| Met Thr                                  | Ala Asp<br>20  | Ser Glu        | Ala As:        | n Ala<br>25  | Thr        | Asn        | Trp         | Tyr        | Asn<br>30  | Thr        | Asn               |      |
| Glu Ser                                  | Leu Tyr<br>35  | Thr Thr        | Glu Lev<br>40  | ı Asn        | His        | Arg        | Trp         | Tie<br>45  | Ser        | Gly        | Ser               |      |
| Ger Thr<br>50                            | Ile Gln        | Pro Glu        | Glu Sei<br>55  | . Leu        | Tyr        | Gly        | Thr<br>60   | Asp        | Leu        | Pro        | Thr               |      |
| Tyr Gln<br>85                            | His Cys        | Ile Ala<br>70  | Thr Arc        | j Asn        | Ser        | Phe<br>75  | Ala         | Аεр        | Leu        | Phe        | <b>Th</b> r<br>80 |      |
| Val Val                                  | Leu Tyr        | Gly Phe<br>85  | Val Cys        | s Ile        | Ile<br>90  | Gly        | Leu         | Ph.e       | Gly        | Asn<br>95  | Thr               |      |
| Leu Val                                  | Ile Tyr<br>100 |                | Leu Arq        | g Phe<br>103 | Ser        | Lys        | Met         | Gln        | Thr<br>110 | Vāl        | Thr               |      |
| Asn Ile                                  | Tyr Ile<br>115 | Leu Asn        | Leu Ala<br>120 |              | Ala        | Asp        | Glu         | Cys<br>125 | Phe        | Leu        | Ile               |      |
| Gly Ile<br>130                           | Pro Phe        | Leu Leu        | Tyr Thi<br>135 | r Met        | Arg        | Ile        | Cys<br>140  | Ser        | Trp        | Arg        | Phe               |      |
| Gly Glu<br>145                           | Phe Met        | Cys Lys<br>150 |                | Met          | Val        | Ser<br>155 | Thr         | S⊕r        | Ile        | Th.r       | Ser<br>160        |      |
| Phe Thr                                  | Ser Ser        | Ile Phe<br>165 | Leu Lei        | : Ile        | Met<br>170 | Ser        | Ala         | Asp        | Arg        | Tyr<br>175 | Ile               |      |
| Ala Val                                  | Cys His<br>180 | Pro Ile        | Ser Se:        | r Pro<br>185 | Arg        | Tyr        | Arg         | Thr        | Leu<br>190 | His        | Ile               |      |
| Ala Lys                                  | Val Val<br>195 | Ser Ala        | Ile Ala<br>20  |              | Ser        | Thr        | Ser         | Ala<br>215 | Vāl        | Leu        | Met               |      |
| Leu Pro                                  | Väl ile        | led Tyr        | Ala Se         | c Thr        | ∵al        |            | Gln<br>Fage |            | Asp        | 917        | lle               |      |

### KURT.13F.UTL1.twt

|            |            |            |            |             |            | 215        |            |            | ٠          | . :***•    | l DE.      | T_:        | .txt                    |              |            |
|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------------|--------------|------------|
|            | 2.0        |            |            |             |            | 4.:        |            |            |            |            | 4.4.       |            |                         |              |            |
| Asn<br>225 | Tyr        | Jer        | :;;s       | Ası.        | Ile<br>231 | Met        | Trr        | Ero        | Asp        | Ala<br>135 | Tyr        | Lys        | Lys                     | His          | 198<br>198 |
| gl;        | Thr        | Thr        | Fhe        | Ile<br>245  | Leu        | Tyr        | Thr        | Fhe        | Fhe<br>250 | Leu        | 317        | Phe        | Ala                     | T:: £<br>255 | Fro        |
| leu        | Cys        | Phe        | Ile<br>260 | Leu         | Ser        | Phe        | Tyr        | Tyr<br>265 | Leu        | Val        | Ile        | Arg        | Lys<br>2 <sup>7</sup> : | Leu          | Arg        |
| Ser        | Val        | G17<br>275 | Pro        | Lys         | Pro        | gl;        | Thr<br>280 | Lys        | Ser        | Lys        | Glu        | L7s<br>285 | Arg                     | Arg          | Ala        |
| His        | Arg<br>290 | Lys        | Val        | Thr         | Arg        | Leu<br>295 | Val        | Leu        | Thr        | Val        | Ile<br>300 | Sei        | Val                     | Tyr          | Ile        |
| Leu<br>305 | Суѕ        | Trp        | Leu        | Pro         | His<br>310 | Trp        | Ile        | Ser        | Gln        | Val<br>315 | Ala        | Leu        | Ile                     | His          | Ser<br>320 |
| Asn        | Pro        | Ala        | Gln        | Arg<br>325  | Asp        | Leu        | Ser        | Arg        | Leu<br>330 | Glu        | Ile        | Leu        | Ile                     | Phe<br>335   | Leu        |
| Leu        | Leu        | Gly        | Ala<br>340 | Leu         | Val        | Tyr        | Ser        | Asn<br>345 | Ser        | Ala        | Val        | Asrı       | Pro<br>350              | Ile          | Leu        |
| Tyr        | Ala        | Phe<br>355 | Leu        | Ser         | Glu        | Asn        | Phe<br>360 | Arg        | Lys        | Ser        | Phe        | Phe<br>365 | Lys                     | Alā          | Phe        |
| Thr        | Cys<br>370 | Met        | Asn        | Lys         | Gln        | Asp<br>375 | Ile        | Asn        | Ala        | Gln        | Leu<br>380 | Glrı       | Leu                     | Glu          | Pro        |
| Ser<br>335 | Val        | Phe        | Thr        | Lys         | Gln<br>390 | Gly        | Ser        | Lys        | Lys        | Arg<br>395 | Gly        | Gly        | Ser                     | Lys          | Arg<br>400 |
| Leu        | Leu        | Thr        | Ser        | Asr.<br>405 | Pro        | Gln        | Ile        | Pro        | Pro<br>410 | Leu        | Leu        | Pro        | Leu                     | Asn<br>415   | Ala        |
| Gly        | Asn        | Asn        | Asn<br>420 | Ser         | Ser        | Thr        | Thr        | Thr<br>425 | Ser        | Ser        | Thr        | Thr        | Thr<br>430              | Ala          | Glu        |
| Lys        | Thr        | Gly<br>435 | Thr        | Тhг         | Gly        | Thr        | Gln<br>440 | Lys        | Ser        | Cys        | Asn        | Ser<br>445 | Asn                     | Gly          | Lys        |
| Val        | Thr<br>450 | Ala        | Pro        | Pro         | Glu        | Asn<br>455 | Leu        | Ile        | Ile        | Cys        | Leu<br>460 | Ser        | Glu                     | Gln          | Gln        |
| Glu<br>465 | Ala        | Phe        | Cys        | Thr         | Thr<br>47; | Ala        | Arg        | Arg        | Gly        | 475        | Gly        | Ala        | Val                     | Gln          | Gîn<br>480 |

### 7297.idf.smlt.twh

### Thr Asp Leu

| 82118 - 21<br>82118 - 1784   |      |
|--|------|
| <212> CNA<br><213> D. melanogaster   |      |
|  |      |
| <400> 21<br>atgitteaact acgaggaggg ggatgeogae caggeggeea tggetgeage ggetgeetat | €≎   |
| agggdactgs togastacta tgscaatgeg coaagtgegg egggtdacat agtgtegete              | 12.0 |
| aacgiggoac octabaatgg aasiggaaac ggaggoacig ictootiggo gggoaatgog              | 180  |
| acaagcagot atggogatga tgatagggat ggotatatgg acaccgagee cagtgacotg              | 240  |
| greasegase tggesttets cotgggsase agitsaagis saagiessag tiesasasee              | 300  |
| gottocagot coagtactic captygoatg copytotygo tyataccoag ctatagoatg              | 360  |
| attetgetgt tegeogtget gggeaacetg etggteatet egaegetggt geagaatege              | 420  |
| oggatgogta coataaccaa ogtgttoctg otcaacctgg coatatogga catgotgotg              | 480  |
| ggogtgotot goatgooogt caccotggtg ggoaccotgo tgogaaactt catctttggo              | 540  |
| gagtteetet geaagetett teagtteteg eaageogoot degtggoogt tiegteetigg             | 600  |
| acettggtgg coatatectg tgagegotae tabgegatat godatecast gegetegoga              | 660  |
| tootggbaga daatbagtba ogodtabalag atbatoggot toatotggbt gggoggoatd             | 720  |
| stotgsatga ogodsatags ggtotttagt saattgatad ssassagtog abogggotas              | 780  |
| tgcaagtgoo gtgagttittg goodgaddag ggatadgagd tottotadaa datedtgotg             | 840  |
| gastissigs igsisgissi geogettete gisstelgeg iggeelasat estealeaeg              | 900  |
| ogtabostgt abgtaggbat ggbbaaggab agbggabgba tobtgbagba ategotgbbt              | 960  |
| gttteegeta caacygeegg eggaagegea segaateegg geaccageag cagtagtaac              | 1020 |
| tgeatestgg teetgacoge cacegoagte tataatgaaa atagtaacaa taataatgga              | 1080 |
| aatteagagg gateegeagg eggaggatea accaatatgg caaegaceae ettgacaaeg              | 1140 |
| agaccaacgy ofocaactyt gateaccacc accacgacga ccacgytgae getggedaag              | 1200 |
| abotostogo obagbattog ogtobabgat goggoactto gbaggtobaa ogaggobaag              | 1260 |
| accongraga goaagaagog tgtggtcaag angongtneg testggtgen ggagttitte              | 1320 |
| atotgotgga obecgotgta ogtgatoaac adjatggtoa tgotgatogg acoggtggtg              | 1380 |
| tapgagtaty tegaptacae ggpeateagt ttpptopage typtgyceta etcatecage              | 1440 |
| tgotgsaats ogatoacota otgottoatg aaogosagst tsoggsgogo otttgtogac              | 1500 |
| accttcaagy gtetgeeetg gegtegtgga geaggtgesa geggaggegt eggtggtget              | 1560 |
| getggtggag gasteteege sagbbaggeg ggegeagges egggegeeta tgegagtgee              | 1821 |

Page 3°

### /L97.10F.UT18.twt

| ruf ilosticiano (MC  |   |
|--|---|
| adodocadom tragicioda isocraposta goudrigogia iggisaceto geografic $\mu$ . Where | - |
| toacgocacg agittotoaa tgoggitggtg accaposata gigoogongo ogoogicaas — 174         |   |
| agtootoag: tota 175  | 4 |
| <210> 22<br><211> 594<br><212> PRT<br><213> D. melanogaster                      |   |
| <400> 22   |   |
| Met Phe Asn Tyr Glu Glu Gly Asp Ala Asp Gln Ala Ala Met Ala Ala<br>1 15 15       |   |
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| Ala Ala Gly His Ile Val Ser Leu Asn Val Ala Pro Tyr Asn Gly Thr 35 45            |   |
| Gly Asn Gly Gly Thr Val Ser Leu Ala Gly Asn Ala Thr Ser Ser Tyr 50 60            |   |
| Gly Asp Asp Asp Arg Asp Gly Tyr Met Asp Thr Glu Pro Ser Asp Leu 65 70 80         |   |
| Val Thr Glu Leu Ala Phe Ser Leu Gly Thr Ser Ser Ser Pro Ser Pro<br>85 96 95      |   |
| Ser Ser Thr Pro Ala Ser Ser Ser Ser Thr Ser Thr Gly Met Pro Val                  |   |
| Trp Leu Ile Pro Ser Tyr Ser Met Ile Leu Leu Phe Ala Val Leu Gly 115 120 125      |   |
| Asn Leu Leu Val Ile Ser Thr Leu Val Gln Asn Arg Arg Met Arg Thr<br>130 135 140   |   |
| Ile Thr Asn Val Phe Leu Leu Asn Leu Ala Ile Ser Asp Met Leu Leu<br>145 150 160   |   |
| Gly Val Leu Cys Met Pro Val Thr Leu Val Gly Thr Leu Leu Arg Asn<br>165 170 175   |   |
| Phe Ile Phe Gly Glu Phe Leu Cys Lys Leu Phe Gln Phe Ser Gln Ala<br>188 191       |   |
| Ala Ser Val Ala Val Ser Ser Trp Thr Leu Val Ala Ile Ser Cys Slu<br>195 201 201   |   |

### 6197.109.8T18.txt

| Arg        | Tyr<br>210 |            | Ala        | : Ile      | - Cys      | His<br>215 |            | leu        | . Arg      | Ser        | Arg<br>220 | Ser        | Trp        | : Gin      | Thr        |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Ile<br>225 | Ser        | His        | Ala        | . Tyr      | Lys<br>230 |            | Ile        | Gly        | Phe        | Ile<br>235 |            | Leu        | Gly        | · Gl;      | Tle<br>240 |
| Leu        | C;rs       | Met        | Thr        | Pro<br>245 |            | Ala        | Val        | Phe        | Ser<br>250 |            | Leu        | Ile        | Pro        | Thr<br>255 | Ser        |
| Arg        | Pro        | Gly        | Tyr<br>260 | Cys        | Lys        | Cys        | Arg        | Glu<br>265 | Phe        | Trp        | Pro        | Asp        | Gln<br>270 |            | Tyr        |
| Glu        | Leu        | Phe<br>275 | Tyr        | Asn        | Ile        | Leu        | Leu<br>280 | Asp        | Phe        | Leu        | Leu        | Leu<br>285 |            | Leu        | Pro        |
| Leu        | Leu<br>290 | Val        | Leu        | Cys        | Val        | Ala<br>295 | Tyr        | Ile        | Leu        | Ile        | Thr<br>300 | Arg        | Thr        | Leu        | Tyr        |
| Val<br>305 | Gly        | Met        | Ala        | Lys        | Asp<br>310 | Ser        | 3ly        | Arg        | Ile        | Leu<br>315 | Gln        | Gln        | Ser        | Leu        | Pro<br>320 |
| Val        | Ser        | Ala        | Thr        | Thr<br>325 | A.la       | Gly        | Gly        | Ser        | Ala<br>330 | Pro        | Asn        | Pro        | Gly        | Thr<br>335 | Ser        |
| Ser        | Ser        | Ser        | Asn<br>340 | Суѕ        | Ile        | Leu        | 7al        | Leu<br>345 | Thr        | Ala        | Thr        | Ala        | Val<br>350 | Tyr        | Asn        |
| Glu        | Asn        | Ser<br>355 | Asn        | Asn        | Asn        | Asn        | Gly<br>360 | Asn        | Ser        | Glu        | Gly        | Ser<br>365 | Ala        | Зіу        | Gly        |
| ⊖ly        | Ser<br>370 | Thr        | Asn        | Met        | Ala        | Thr<br>375 | Thr        | Thr        | Leu        | Thr        | Thr<br>380 | Arg        | Pro        | Thr        | Ala        |
| Pro<br>385 | Thr        | Val        | Ile        | Thr        | Thr<br>390 | Thr        | Thr        | Thr        | Thr        | Thr<br>395 | Val        | T'hr       | Leu        | Ala        | Lys<br>400 |
| Thr        | Ser        | Ser        | Pro        | Ser<br>405 | Ile        | Arg        | Val        | His        | Asp<br>410 | Ala        | Ala        | Leu        | Arg        | Arg<br>415 | Ser        |
| Asn        | Glu        | Ala        | Lys<br>420 | Thr        | Leu        | Glu        | Ser        | Lys<br>425 | Lys        | Arg        | Val        | Val        | Lys<br>430 | Met        | Leu        |
| Phe        | Val        | Leu<br>435 | Val        | Leu        | Glu        | Phe        | Phe<br>440 | Ile        | Cys        | Trp        | Thr        | Fro<br>445 | Leu        | Tyr        | Val        |
| Ile        | Asn<br>450 | Thr        | Met        | Val        | Met        | Leu<br>455 | Ile        | Gly        | Pro        | Val        | Val<br>460 | Tyr        | Glu        | Tyr        | Val        |

### 6297.109.8T28.tMt

| Asp Tyr Thr Ala Ile Ser Phe Leu Gln Leu Leu Ala Tyr Ser Ser Ser<br>485 470 475 480   |  |
|--|--|
| Cys Cys Asn Pro Ile Thr Tyr Cys Phe Met Asn Ala Ser Phe Arg Arg<br>495 496 495   |  |
| Ala Phe Val Asp Thr Phe Lys Gly Leu Pro Trp Arg Arg Gly Ala Gly 505 510  |  |
| Ala Ser Gly Gly Val Gly Gly Ala Ala Gly Gly Gly Leu Ser Ala Ser<br>515 520 525   |  |
| Gln Ala Gly Ala Gly Pro Gly Ala Tyr Ala Ser Ala Asn Thr Asn Ile<br>530 540   |  |
| Ser Leu Asn Pro Gly Leu Ala Met Gly Met Gly Thr Trp Arg Ser Arg<br>555 560   |  |
| Ser Arg His Glu Phe Leu Asn Ala Val Val Thr Thr Asn Ser Ala Ala<br>565 570 575   |  |
| Aia Ala Val Asr. Ser Prc Gln Leu<br>580  |  |
| +00100 23<br>+0110 1452<br>+0112 DNA<br>+0113 E. melanogaster  |  |
|  |  |
| (400) 23<br>Algidageot cottgatgga egitiggodag aegitiggodag ecaggetgge ggatagegae   | 60   |
| atgtacgect cettgatgga egttggecag aegttggeag eeaggetgge ggatagegae  | 60<br>120  |
|  |  |
| angtabgect bettgatgga egttggedag aegttggedag ecaggetgge ggatagegae ggbabgggg bedatgadag eggabteetg gedaebggae aaggtetgga gbaggageag  | 120  |
| anythogot sottgatgga ogttygoday acgttygoday ocaaggotggo gyatayogad gysaacyggg scaatgadag oggastooty godaccygad aaggtotgga godagagagag gagggtstgg dactygatat gygosadaat godagsgooy acggoggaat agtacogtat  | 120  |
| anythogot octtgatgga ogttggoda acgttggoda coaggotggo ggatagogad ggaaacgggg coaatgadag oggastootg gdaaccggad aaggtotgga gdaggagdag gaggggtotgg cactggatat gggodacaat godagogod acggoggaat agtaccgtat gtgodogtgo tggaocgod ggagacgtad attgtoaccg tgotgtadac gotcatotto   | 120<br>130<br>240                                    |
| anythologic cottgatga ogttygoday acgttygoday coaggotygo gyatayogad gyaaacyggg coaatgadag oggastooty godaccygad aaggtotyga goaggaydag payggtotyg daetggatat gygodacaat godagogody acggogyaat agtaccygtat ytgodogtygo tygaccygod gyagadytab attgtoaccy tyctgtacad gotdatotto artgtyggag tittggydaa cygoacgoty gtdatoatot totttogoda cogotocaty   | 120<br>130<br>240<br>300                             |
| anythologot bottgatgga ogttggodaj acgttggodaj ocaggotggo ggatajogad ggbaabgggg boaatgadag oggabtootg gcaacbggad aaggtotgga gbaggagdag gaggggbbtgg dactggatat gggobacaat gccagbgobg acggoggaat agtacbgtat gtgodbgtgd tggabogodo ggagadgtab attgtbadog tgotgtabad gotdabbtb antgtgggag ttttgggoda bggbaacgotg gtcatbatot tbtttbgboa ocgobbbatg cgcaabatab ocaacadata battbttba otggobotgg otgatotgtt ggttatattg  | 120<br>130<br>240<br>300<br>360                      |
| anghacgest cottgatga egitigecag aegitigeag ceaggetige ggatagegae ggaaacggag ceaatgacag eggacteetig geaaccggae aaggietigga geaggageag pagggititig eaetggatat gggecaeaat geeagegeeg aeggeggaat agtaccgtat gigecogtige tiggacegeed ggagaegtae attigtiaecg tigetigtaeae geteatotte antigtiggag tittigggeaa eggeaegetig gicateatet tottitegeea eegeticatig egeaacataa eaattottiea etggecetig etgatetigit ggitatatig gigtigtigae etgitigeeae gattigtetae aegeaggaaa getigeestit tigageggaae  | 120<br>130<br>240<br>300<br>360<br>420               |
| anythological bottgatgga ogttygoday acgttygoday ocaggotygo gyatayogad gybaabyggg bodatgaday oggabtodty godacbygad aaggtotyga gbaggaydag gayggtbygg bactggatat gygobacaat godagbygod acggogyaat agtacbytat gygobyygod tygabogodo gyagadytab attgtbaccy tyctgtabac gotoabbtb antgtyggay tittggydaa bygoadgoty gtoatbatot totttogoda ocgobbbaty cycaabatab obaacadata battbttba otggobotyy otgatotytt gyttatatty gytytydad otytggboad gattytotab acgoaygaaa gotygobott tyagogyaab arytydbyga toagogyytt otttaaggab atatbbatog gygtytobyt gyttacabty   | 120<br>130<br>240<br>300<br>360<br>420<br>480        |
| anguancian contiguing official acquiring and consider and continues of the consider and continues of the consider and contiguing and continues and contiguing and contiguing and continues | 120<br>130<br>240<br>300<br>360<br>420<br>480<br>540 |
| anythological bottgatgga ogttygoday acgttygoday ocaaggotggo ggatayogad gybaacyggg bodaatgadag oggabtootg gdaacbygad aaggotgga gbaggaydag gaggaydattygg dactggatat gygobacaat godagbygoog acggoggaat agtacbytat gtgodbygod tygabogodo gyagacytab attgtbacog tygotgtabac gottabbtb antgtyggay tittgggbaa bygobacydy gtdatbatot tbittbybca cogotbbaty cybaabatab obaacadata battbittba otggobotgy digatetyit gybtatatty gigtytybab otgtggbbac gattytotab acgbaggaaa gbiyyobbit tgagoggaab argigbootti ocygogaybi ottbaaggab atabbatog gygtyboogt gittacabty acgbootti ocygogaybi gtaabggbba attgtaaatb obbacogbaa gottcagacbaaggbootti ocygogaybi gtaabggbba attgtaaatb obbacogbaa gottcagacbaaggbbaa otytottaa tgoggtgatg atotggatob tggbbatoot actgggbatg   | 120<br>130<br>240<br>300<br>360<br>420<br>480<br>540 |

### 6297.1CP.ST28.txt

| gedaagegge | tocatatgag | ogocogoaac | atgeceggeg | aacagcagag | catgoagago | 940  |
|------------|------------|------------|------------|------------|------------|------|
| ogcacccagg | ctagggbeeg | actocatgtg | gogogoatgg | tggtagcatt | ogtagtagta | 901  |
| ttottcatot | gattattees | gtaccacgtg | tttgagctgt | ggtaccactt | stasssaasg | 960  |
| gctgaggagg | acttogatga | gttetggaae | gtgctgcgca | teetteetaa | actogtgogt | 1327 |
| caaccccgtg | goototactg | egtgteeggg | gtgtttegge | agcactttaa | togotacoto | 1180 |
| tgstgsatct | gogtcaagcg | gcagcegeae | ctgcggcage | actcaacggc | cactggaatg | 1140 |
| atggacaata | ccagtgtgat | gtocatgege | cgctcsasgt | acgtgggtgg | aaccgstggc | 1200 |
| aatotgoggg | cotogotgoa | ccggaacage | aatsasgjag | ttggtggagc | tggaggtgga | 1260 |
| gtaggaggag | gagtagggto | aggtcgtgtg | ggcagettte | atcggcagga | ctcgatgccc | 1320 |
| stycagoacg | gaaatgccca | cggaggtggt | gegjjegjgg | gatesteegg | acttggagee | 1380 |
| jjogggegga | eggeggeagt | gagcgaaaag | agctttataa | ategttaega | aagtggcgta | 1440 |
| angoqotact | aa         |            |            |            |            | 1452 |

H2100 24

%211: 483
%212: PRT
%213: D. melanogaster

-14001/ 24

Met Tyr Ala Ser Leu Met Asp Val Gly Gln Thr Leu Ala Ala Arg Leu

Ala Asp Ser Asp Gly Asn Gly Ala Asn Asp Ser Gly Leu Leu Ala Thr

Gly Gln Gly Leu Glu Gln Glu Gln Glu Gly Leu Ala Leu Asp Met Gly

His Asn Ala Ser Ala Asp Gly Gly Ile Val Pro Tyr Val Pro Val Leu

Asp Arg Pro Glu Thr Tyr Ile Val Thr Val Leu Tyr Thr Leu Ile Phe 65 70 7.5

Ile Val Gly Val Leu Gly Asn Gly Thr Leu Val Ile Ile Fhe Phe Arg

His Arg Ser Met Arg Asn Ile Pro Asr Thr Tyr Ile Leu Ser Leu Ala 100 105

Leu Ala Asp Leu Leu Val Ile Leu Val Cys Val Pro Val Ala Thr Ile 115 120 125

Val Tyr Thr Gln Glu Ser Trp Fro Phe Glu Arg Asn Met Cys Arg Ile Page 34

### 8127.10B.ST18.txt

|            | -3.        |            |            |             |            | 1:"        |            |            | ς.         | -1.        | 14.         | · - :      |            |            |            |
|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| Ser<br>145 | gla        | Phe        | Fhe        | Lys         | Asp<br>181 | Ile        | Ser        | le.        | jly        | 731<br>185 | Ser         | val.       | Ehe        | Thr        | leu<br>180 |
| Thr        | Ala        | Leu        | Ser        | 31.7<br>165 | 314        | Arg        | Tyr        | Cys        | Ala<br>100 | ile        | Val         | Asn        | Fro        | Leu<br>175 | Arg        |
| L;;s       | Leu        | Gln        | Thr<br>180 | Lïs         | Pro        | Leu        | Thr        | Val<br>185 | Phe        | Thr        | Ala         | Val        | Met<br>190 | Ile        | Trp        |
| Ile        | Leu        | Ala<br>198 | Ile        | Leu         | Leu        | Gly        | Met<br>200 | Pro        | Ser        | Val        | Leu         | Phe<br>205 | Ser        | Asp        | Ile        |
| Lys        | Ser<br>210 | Tyr        | Pro        | ∵aî         | Fhe        | Thr<br>215 | Ala        | Thr        | Gl;        | Asn        | Met<br>220  | Thr        | lle        | 31u        | Val        |
| Cys<br>225 | Ser        | Pro        | Phe        | Arg         | Asp<br>230 | Pro        | Glu        | Tyr        | Ala        | Lys<br>235 | Phe         | Met        | Val        | Alā        | Gly<br>240 |
| Lys        | Ala        | Leu        | Val        | Tyr<br>245  | Ţγr        | Leu        | Leu        | Pro        | Leu<br>250 | Ser        | Ile         | Ile        | Gly        | Ala<br>255 | Leu        |
| Tyr        | Ile        | Met        | Met<br>260 | Ala         | Lys        | Arg        | Leu        | His<br>265 | Met        | Ser        | Ala         | Arg        | Asn<br>270 | Met        | Pro        |
| Gly        | Glu        | Gln<br>275 | Gln        | Ser         | Met        | Gln        | Ser<br>280 | Arg        | Thr        | Gln        | Ala         | Arg<br>285 | Ala        | Arg        | Leu        |
| His        | Val<br>290 | Ala        | Arg        | Met         | Val        | Val<br>295 | Ala        | Phe        | Val        | Val        | V.al<br>300 | Phe        | Phe        | Ile        | Cys        |
| Phe<br>305 | Phe        | Pro        | Tyr        | His         | Val<br>310 | Phe        | Glu        | Leu        | Trp        | Tyr<br>315 | His         | Phe        | Tyr        | Pro        | Thr<br>320 |
| Ala        | Glu        | Glu        | qsA        | Phe<br>325  | Asp        | Glu        | Phe        | Trp        | Asn<br>330 | Val        | Leu         | Arg        | Ile        | Leu<br>335 | Pro        |
| Lys        | Leu        | Val        | Arg<br>340 | Gln         | Pro        | Arg        | Gly        | Leu<br>345 | Tyr        | Суѕ        | Val         | Ser        | Gly<br>350 | Val        | Phe        |
| Arg        | Gln        | His<br>355 | Phe        | Asn         | Arg        | Tyr        | Leu<br>360 | Cys        | Суѕ        | Ile        | Суѕ         | Val<br>365 | Lys        | Arg        | Gln        |
| Pro        | His<br>370 | Leu        | Arg        | Gln         | His        | Ser<br>375 | Thr        | Ala        | Thr        | Gly        | Met<br>380  | Met        | Asp        | Asn        | Thr        |
| Ser<br>395 | Val        | Met        | Ser        | Met         | Arg<br>391 | Arg        | Ser        | Thr        | Tyr        | Val<br>395 | Gly         | Gly        | Thr        | Ala        | G17<br>411 |
|            |            |            |            |             |            |            |            |            |            |            |             |            |            |            |            |

### kugT.13F.8T16.txt

| Asn Leu Arg Ala Ser Leu His Arg Asn Ser Asn His Sly Val Fly Sly 415 415 415        |
|--|
| Ala Gly Gly Gly Val Gly Gly Gly Val Gly Ser Gly Arg Val Gly Cer<br>420 425 435     |
| Pho His Arg Gln Asp Ser Met Pro Leu Gin His Gly Asn Ala His Gly 435 440 448        |
| Gly Gly Ala Gly Gly Gly Ser Ser Gly Leu Gly Ala Gly Gly Arg Thr 450 460            |
| Ala Ala Val Ser Glu Lys Ser Phe Ile Asn Arg Tyr Glu Ser Gly Val<br>465 470 475 480 |
| Met Arg Tyr  |
| +CD100+ 25<br>+CD110+ 10<br>+CD120+ PET<br>+CD130+ Artificial Sequence             |
| <pre>-mright -mright Nevel Sequence</pre>  |
| -04C00: 25   |
| The Asp Val Asp His Val Phe Leu Arg Phe<br>1 5 10                                  |
| +02100+ 200<br>+02110+ 0<br>+02120+ PET<br>+02130+ Artificial Sequence             |
| HILLON Movel Sequence  |
| +(4C0)+ 2£   |
| App Pro Lys Gln Asp Phe Met Arg Phe<br>1 5   |
| +0.100+ 27<br>+0.110+ "<br>+0.120+ PRT<br>+0.130+ Artificial Sequence              |
| <pre>-difd: &lt;213: Novel Sequence</pre>  |
| K400H 27   |
| Pro Asp Asi. Phe Met Arg Phe   |

# 8197.10P.0728.txt

```
<210> L6
<211> A
<212> BRT
<213> Artificial Sequence
<220°
<223 Novel Jequence
<400 - 28
Thr Fro Ala Glu Asp Phe Met Arg Phe
(210): 29
(211): 9
(212): PRT
(013): Artificial Sequence
KC20:
C.12:1 Novel Sequence
<:00 29
Ser Leu Lys Gln Asp Phe Met His Phe
<C10> 30
<C110> 9
CC10> PET
<C10> Artificial Sequence
0.200
0.200 Novel Sequence
-:40:: 30
Ser Val Lys Gln Asp Phe Met His Phe
00100 31
00110 6
00110 PET
0.130 Artificial Sequence
1,200
Hu230 Novel Sequence
(40)0- 31
Ala Ala Met Asp Arg Tyr
(d10) 32
(d11) 9
(d12) PRT
<213 Artificial Sequence</pre>
<2202
```

Fage 37

6297.1CP.ST25.twt <223> Novel Sequence 4401 - 32 Cer Val Gln Asp Asm Phe Met His Phe 1

021.4 33 02114 11 02124 BAT 02134 Artificial Sequence

H224 + Novel Sequence

Ala Arg Hly Pro Gln Leu Arg Leu Arg Phe

HL10 - 34 HL11 - 10 HL11 - PPT HL10 - Artificial Sequence

-1220-

+1123 - Novel Sequence

-(400 - 34

Gly Asp Gly Arg Leu Tyr Ala Phe Gly Leu

%210 + 35 %211 + 8 %212 + PPT %213 \* Artificial Sequence

SULAR Nevel Sequence

4410 - 35

Asp Arg Leu Tyr Ser Phe Gly Leu

+0010+ 36 +0011+ 18 +0012+ FFT +0133+ Artificial Sequence

-11100

<1130 Nivel Sequence</pre>

+:4000 38

Ala Pro Ser Gly Ala Gln Arg Leu Tyr Gly Phe Gly Leu ī 5

<210> 37

```
6197.10F.ST28.txt
<211N 9
<212 + PRT
<213 + Artificial Sequence</pre>
<(22) +
<(223 + Novel Sequence</pre>
4439 + 37
 May May Mer Leu Tyr Ser Phe Gly Leu 5
0213 + 38
0211 + 4
0213 + PET
0213 - Artificial Sequence
 :221-
Hovel Sequence
-14-1-1- 38
Pho Ile Arg Phe
1010 - 29
1111 - 7
HLIL PET
HILL Artificial Sequence
%200+
%203+ Novel Sequence
39
Lys Asn Glu Phe Ile Arg Phe
SQ10 46
SQ11 4
SQ11 FET
SQ110 Artificial Sequence
-1120 F
-00030 Novel Sequence
(4.000) 4.0
Phe Met Arg Phe
```

HillO: 41 HillO: 7 HIM: PFT HillO: Artificial Sequence HillO: Novel Sequence

<400> 41

6297.10F.ST25.txt

```
Lys Ser Ala Phe Met Arg Phe
<220 +
1123 + Novel Sequence</pre>
4400 - 4.
 Lys Prc Asn Phe Leu Arg Phe 1
%21) * 4:
%211     4
%212     PMT
%13     Artificial Sequence
<!20 +
<!!!23 - Novel Sequence</pre>
-1400 - 43
Phe Leu Arg Phe
%210 * 44
%211 * 4
%212 * PET
%213 * Artificial Sequence
HIDDER Howel Sequence
44000 44
Tyr Leu Arg Phe
HEED AND Model Sequence
-14000- 45
Lys Pro Asn Phe Leu Arg Tyr
+02100 46

+02110 8

+02120 FET

+02150 Artificial Sequence
```

```
4220%
%323 Novel Sequence
<430 - 4€
 Inr Ash Arg Ash Phe Leu Arg Phe 5
+:21) + 47
+:211 9
+:212 + PRT
H213 - Artificial Sequence
%223 * Novel Sequence
-(4^{\circ}) + -4^{\circ}
Ary Asn Lys Phe Glu Phe Ile Arg Phe
+010 + 48

-011 + 3

+012 + PFT

+013 + Artificial Sequence
%124 * Novel Sequence
-0400 - 48
Ala Gly Fro Arg Phe Ile Arg Phe
%21% 49
%21% 4
%21% PFT
%21% Artificial Sequence
KLITO
KLIZ3 - Nevel Sequence
349. B 49.
Gly Leu Gly Pro Arg Pro Leu Arg Phe
40.7<u>2</u>004
%L230 Novel Sequence
-:400:- 50
Ile Leu
```

```
6297.109.8T28.txt
 (210% 51
(211 + 8
(212 + PRT)
(213 + Artificial Sequence
 3223 Novel Sequence
-400 - 51
 Ala Bly Ala Lys Ile Phe Arg Phe
 H210 - 5.
 -211 9
 HALL PRI
3213 Artificial Sequence
-(22)
-(23) Novel Sequence
-14 ) 0 51
Ala Pro Lys Pro Lys Phe Ile Arg Phe
%110 + 63
%111 + 3
%112 + PFT
%113 + Artificial Sequence
+(30) +
+(313 + Novel Sequence
-1400 - 53
Lys Ser Ala Phe Val Leu Arg Phe I 5
+2210 + 54
+2211 + 9
+2212 + PPT
+2213 + Artificial Sequence
%210*
%213* Movel Sequence
<400 - 54
The Lys Phe Gln Asp Phe Leu Arg Phe
HILL():
HILL(): Novel Sequence
<4500 55
```

# -8297.13F.2T28.txt

```
Ser Ala Glu Fro Phe Gly Thr Met Arg Phe
K211 56
K211 12
K2127 PRT
K2137 Artificial Sequence
·:320:
+:223 > Novel Sequence
-14000 56
Ala der Glu Asp Ala Leu Phe Gly Thr Met Arg Phe
%210% 57
%3.1% 13
%3.12% PET
%213% Artificial Sequence
RAMES Novel Sequence
-14000- 57
Jer Ala Asp Asp Ser Ala Pro Phe Gly Thr Met Arg Phe
%210> $1
%210> 12
%210> PRT
%210> Artificial Sequence
+1.12 (D)
<223> Novel Sequence
-14000 5E
Glu Asp Gly Asn Ala Pro Phe Gly Thr Met Arg Phe
+,<u>2(1)</u>(1)+ 5,9
FILE S
FILE FRT
FILE Artificial Sequence
:220)
:::21): Novel Sequence
-1403b- 59
Phe Leu Phe Gln Pro Gln Arg Phe
+2100 +60
+22110 9
+2212 PRT
+2213 > Artificial Sequence
```

## 6297.10P.ST25.tMt

```
<2200
<223 - Novel Sequence
+40. - 60
 Ger Ala Asp Pro Ash Phe Leu Arg Phe 1
 121: 61
1211: 3
 H21L + PRT
H212 + Artificial Sequence
%U2%
%U2%
%U2%
Nivel Sequence
-(40) - 61
 Jer Eln Fro Ash Phe Leu Arg Phe
+0016 + 60
+0011 + 10
+0012 + PAT
+0013 + Artificial Sequence
-1210 -
HILLS - Nivel Sequence
-1400 / 62
Ala Per Gly Asp Pro Asn Phe Leu Arg Phe
%210 - 63
%311 - 8
%312 - PPT
%313 - Artificial Sequence
-1020 -
<123 · Novel Sequence</pre>
+(400) - 73
Ser Asp Fro Asr. Phe Leu Arg Phe
+0110 + 04
+0111 + 10
+0110 PFT
+0113 Artificial Sequence
11.201
+1230 Novel Sequence
<4000 64
Ala Ala Ala Asp Pro Asn Phe Leu Arg Phe 1 \, 5 \,
```

## R197.10F.2T18.txt

```
(220)
(223) Novel Sequence
:4001- 65
Pro Asn Phe Leu Arg Phe
42104 66
%210.0 00
%2110 6
%2120 PRT
%2130 Artificial Sequence
4.3201
+2223: Novel Sequence
G000 66
Lys Fro Phe Leu Arg Phe
H21(0 67
H211 11
H2120 PRT
H3131 Artificial Sequence
-1.121643
-dh:30 Novel Sequence
-(400) 67
Ala Gly Ser Asp Pro Asn Phe Leu Arg Phe
HU100 68
HU110 7
HU121 PRT
HU130 Artificial Sequence
·:2200
HU23H Novel Sequence
-14000 68
Lys Fro Asn Phe Leu Arg Tyr 5
-0010 - 69
RITT - 8
RITT - 8
RITT - PRT
RITT - Artificial Seguence
₹220 +
<223> Novel Sequence
```

Fage 45

6297.10P.ST28.twt

```
∹4000 69
 Jer Pro Arg Glu Pro Ile Arg Phe
 -210 - 70
211 + 8
+212 + FRT
+213 + Artificial Sequence
- 320 -
+223 + Novel Sequence
+400+ 70
 Les Arg Bly Glu Pro Ile Arg Phe
-210 - 71
-211 - 3
-212 - PFT
-213 - Artificial Sequence
- 220
+223 - Nivel Sequence
- 400 - 71
Ser Fro Leu Gly Thr Met Arg Phe
+210+ 72
+211+ 11
+211+ PHT
+213+ Artificial Sequence
+113 + Novel Sequence
- 40.1 72
\operatorname{Slu} Ala \operatorname{Slu} Glu Pro Leu Gly Thr Met Arg Phe
+010 + 74
+011 + 10
+011 + PAT
+013 + Artificial Sequence
- Nevel Sequence
+ 1C-1 - 7.4
Ala Ser Glu Asp Ala Leu Phe Gly Thr Met Arg Phe
+2100 74
+2110 10
+2120 PRT
```

```
6297.10P.ST28.ext
 <2135 Artificial Sequence
 220 .
  223 · Novel Sequence
 400 - 74
 Hu Asp Gly Asn Ala Pro Fhe Gly Thr Met Arg Phe 1 ^{-10}
+210 75
+311 + 10
+312 + PRT
+213 + Artificial Sequence
- .120 -
 123 - Novel Sequence
- 4)) 75
 Jer Ala Glu Pro Phe Gly Thr Met Arg Phe
-:10 - 76
-:11 - 13
-:112 - PFT
-:13 - Artificial Sequence
+ 120 + Hovel Sequence
+400 - 76
Ser Ala Asp Asp Ser Ala Pro Phe Gly Thr Met Arg Phe
PET
Clir Artificial Sequence
-220 -
-223 - Novel Sequence
+410 - 77
Lys Fro Thr Phe Ile Arg Phe
5
+310: 78
+..23> Novel Sequence
+400:- 78
Ala Ser Pro Ser Phe Ile Arg Phe
```

Fage 47

# 4197.10F.8718.twt

```
K2178 T9
-2211 T
-211 PRT
-213 Artificial Sequence
      -320 - N vel Sequence
        400 73
        Ply Ala Lys Phe Ile Arg Phe 5
      % I1( + 8 % )
% L11 + 8 % 
% L12 + PFT
% L13 + Artificial Sequence
     ..21.
..23. Nivel Sequence
   ×401 + 8
      Ala Bly Ala Lys Phe Ile Arg Phe

..l() - F1
..l() - F
..l() - F
..l() - F
..l() - Artificial Sequence
..l() - F
.
  +230+
+225+ Nevel Sequence

    4000 - 91

    Ala Pro Lys Pro Lys Phe Ile Arg Phe
  +217 32
+211 7
+212 FFT
+213 Artificial Sequence
 +200.
>200.
Novel Sequence
 8.
   Lys Ser Ala Tyr Met Arg Phe
%:10. 83
%:11.% 11
%:11.% PFT
%:15. Artificial Sequence
· _300
Novel Sequence
```

#### 6297.10F.2T28.txt

```
k400% 83
Ser Pro Met Gln Arg Ser Ser Met Val Arg Phe
::210 + 84
::211 + 11
::212 + PRT
::213 + Artificial Sequence
1.120
HDD3 - Nuvel Sequence
-(41) 34
Wer Pro Met Glu Arg Ser Ala Met Val Arg Phe
+210 + 35
+211 + 11
+212 + PRT
+213 + Artificial Sequence
Sillar Navel Sequence
3400 - 85
Ser Pro Met Asp Arg Ser Lys Met Val Arg Phe
      5
HILLS 88
HILLS 7
HILLS PRT
HILLS Artificial Sequence
4400 - 86
Lys Asn Glu Phe Ile Arg Phe
+1<u>22</u>4 (+
-11130 Novel Sequence
-:40ti- 87
Lys Pro Ser Phe Val Arg Phe
·:1.10:- 88
KL112 11
```

## 8297.10P.ST28.txt

```
<2125 FRT
<2135 Artificial Sequence
ku20 -
ku20 - Novel Sequence
K400 88
3in Fro Lys Ala Arg Ser Sly Tyr Ile Arg Ehe
-:223: Novel Sequence
(41)()) - 89
Ala Met Arg Ash Ala Leu Vai Arg Phe 1 5
HIMTO WI
HIMTO 12
HIMTO PET
HIMTO Artificial Sequence
-MMM: Novel Sequence
-(4th)-- (9)
Ala Mer Gly Gly Met Arg Ash Ala Leu Val Arg Phe \pm
HOME WI
HILLS IC
HOME PRT
HILLS Artificial Sequence
+1224 ()+
-:21:: Novel Sequence
4000 91
Ash Gly Ala Pro Gln Pro Phe Val Arg Phe
Onlow 92
Onlow 9
Onlow PET
Onlow Artificial Sequence
. 1. 1. 1.
RELEGY Novel Sequence
<400> 92
Arg Ash Lys Phe Glu Phe Ile Arg Phe
```

Fage 5

8297.10P.ST28.txt

```
4213 · Artificial Sequence
<320 €
 <223 - Novel Sequence
 -(4))- 35
 Ser Asp Arg Pro Thr Arg Ala Met Asp Ser Pro Ile Arg Phe
021) - 94
0211 - 1
0212 - PET
0213 - Artificial Sequence
-1227
+223 - Novel Sequence
(4)00 94
Ala Ala Asp Gly Ala Pro Leu Ile Arg Phe
OCTION AT CONTROL OF THE CONTROL OF T
4122. ·
Mivel Sequence
43400 / 95
Ala Pro Glu Ala Ser Pro Phe Ile Arg Phe
\{(0.100), \dots, 9e
+Clif 16
+Clif FFT
+Clif Artificial Sequence
-.2260-
-22230 Novel Sequence
- (4 (JH) - - 94)
Ala Ser Pro Ser Ala Pro Leu Ile Arg Phe
%3.1(> 97
%2.11> 10
%2.11> PRT
%2.13> Artificial Sequence
<220>
```

6297.10F.3T25.tMt

```
<2235 Novel Sequence
(40) - 97
:213+ 93
:(211+ 9
:(212+ PRT
:(213+ Artificial Sequence
:220
-2224 Novel Sequence
-(1)A- )-
Ala Ser Ser Ala Pro Leu Ile Arg Phe
Hills 98
Hills PRT
Hills Artificial Sequence
12.20
Milite Novel Sequence
3400 - 39
Lys His Glu Tyr Leu Arg Phe
0210 + 1.)
0211 + 6
0212 + PET
0213 - Artificial Sequence
-C210 - C2213 - Novel Sequence
\{(4,10), (-100)\}
Ser Leu Asp Tyr Arg Phe
%1100 101
%2110 14
%2110 PET
%2110 Artificial Sequence
-1111
+02130 Novel Sequence
-14000-101
Glu lle Val Phe His Gln Ile Ser Pro Ile Phe Phe Arg Phe
1 5
```

<210: 102

## 6197.139.3518.txt

```
<211N 9
<212H PRT
<213H Artificial Sequence
:223: Novel Sequence
<400 102
Gly Gly Fro Gln Gly Fro Leu Arg Fhe
<210:- 103
<211:- 8
<212:- PPT
:213:- Artificial Sequence
-:2201-
RC22: Novel Sequence
-:400 1 103
Giy Fro Ser Gly Pro Leu Arg Phe
+:21(:) 164
+:21(:) 7
+::11:: PET
+::11:: Artificial Sequence
HIM OF Nevel Sequence
-14()15 104
A.a Gln Thr Phe Val Arg Phe I $\rm 5
+02109 105
+02119 7
+001.9 PFT
+0013 Artificial Sequence
-1111 ( ) ·
HIZIBLE Nevel Sequence
+4000-115
Gly Cln Thr Phe Val Arg Phe
62.100 116
62.110 7
62.110 PFT
62.13 Attificial Sequence
(22.0)
(22.5) Novel Sequence
<400 ← 10€
```

Fage Er

#### 4197.10F.ST15.tmt

```
Lys Ser Ala Phe Val Arg Phe
 <210 > 107
<211 + T
<212 + PRT</pre>
 -213 - Artificial Sequence
- 220 -
- 223 - Novel Sequence
-400 - 107
 Lys Jer Gln Tyr Ile Arg Phe
· 210 · 108
· 211 · 3
 -212 - PRT
-213 - Artificial Sequence
- 320 -
- 223 Novel Sequence
+400 + 103
Asp Val Fro Gly Val Leu Arg Phe
+110 + 100
+211 + 9
+111 PFT
+113 + Artificial Sequence
-223 Novel Sequence
+400 - 109
Lys Ser Val Pro Gly Val Leu Arg Phe
+210+ 210
+211+ 9
-212+ PET
+313+ Artificial Sequence
-210.
-210. Novel Sequence
+400 - 110
Sur Glu Val Pro Gly Val Leu Arg Phe
                   5
+ 0.10 + 111
+ 0.11 8
+ 0.12 PRT
<213: Artificial Sequence</pre>
```

```
44297.108.8729.twt
 <220>
:223> Novel Sequence
 44005 111
 Jer Val Pro Gly Val Leu Arg Phe
5
 4213 - Artificial Sequence
 :22)
 4223 - Novel Sequence
 ·(4))) · 112
 Asp The Asp Gly Ala Met Pro Gly Val Leu Arg Phe
%Li)+ 113
%Li)+ 8
%Li)+ PRT
%Li)+ Artificial Sequence
Novel Sequence
-14.0 +-11.3
 Fig. 11a Fro Gly Val Leu Arg Phe \frac{1}{5}
%.13* 114
%.111 % 7
%.111 * PRC
Milk Artificial Sequence
HIDDE - Novel Sequence
-1400 - 114
Trp Ala Asn Gln Val Arg Phe
1 5
-0100 115
-0110 9
-0110 PRT
-0110 Artificial Sequence
+:200:-
+:223:- Novel Sequence
·:400: 115
Ala Ser Trp Ala Ser Ser Val Arg Phe
```

## 6297.10P.ST18.twt

```
#2178 116
211: 5
211: FRT
213: Artificial Sequence
+ 21 + 
+ ...li + N:vel Sequence
 407 - 116
 Ala Met Met Arg Phe
 · _ 1 117
- 11 9
- 11 9
- 11 PFT
- 11 Attificial Sequence
1.30
- Li: N:7el Sequence
 400 - 117
Gly Leu Sly Pro Arg Pro Leu Arg Phe
+Cl0    118
+Cl1    3
+Cl1    PFT
+Cl3    Artificial Sequence
+12. +
+113 Novel Sequence
+451+ 11E
Cor fro Cor Ala Lys Trp Met Arg Phe : {\bf 5}
>210>
<223> Novel Sequence
400 - 119
Thr Lys Fhe Gln Asp Phe Leu Arg Phe
+.10 + 121
+.11 + 16
+.12 + PFT
+.13 + Artificial Sequence
· 4002 120
```

#### 6297.10P.ST28.tMt

```
Glu Asp Arg Asp Tyr Arg Pro Leu Gln Fhe
   k210> 121
k211 - 4
k212 - PRT
k213 - Astificial Sequence
  +(22)+
+(22) Novel Sequence
   \{(4,(1))\} = -1,2,1
   Ph+ Ile Arg Phe
  1210 - 122
1211 - 3
1211 - PRT
1213 - Artificial Sequence
  Sittle
Sitt
  \pm 400 \times -122
   Ala Val Pro Gly Val Leu Arg Phe
 % 1.0 * 1.73
% 111 * 9
% 111 * PET
% 21 * Artificial Sequence
 1.01 m
  Walk - Novel Sequence
 4400 - 173
 Gly Asp Val Pro Gly Val Leu Arg Phe
%Close 104
%Clise 13
%Clise PRT
%Clise Artificial Sequence
-02.2 00 + 1
+2723: Novel Sequence
+11000 114
 3 e r Asp [le Gly Ile Ser Glu Pro Asn Phe Leu Arg Phe l \phantom{a}
                                                                                                                                                                                                                     10
<C10: 1:5
<C11: 9
<C11: PHT
<213> Artificial Sequence
```

## ku 97.101.0715.txt

```
<2205
k2135 Novel Dequende
:400H 125
Jer Jly Lys Fro Thr Phe Ile Arg Phe
1
42100 126
0212 11
0212 PRT
0212 Artificial Sequence
::220:
:223: Novel Sequence
-:400: 126
Ala Clu Gly Leu Ser Ser Pro Leu Ile Arg Phe
+02100 127
+00110 8
+00120 PRT
+00130 Artificial Sequence
-WOOD Novel Sequence
<4000 127</p>
Ph.e. Asp Arg Asp Phe Met Arg Phe
HELES Novel Sequence
-14000-128
Ala Gly Pro Arg Phe Ile Arg Phe
+Clib+ 129
+Lli-1 8
+Lli+ PHT
+Clib+ Artificial Sequence
HL23: Novel Sequence
3400× 129
Gly Met Pro Gly Val Leu Arg Phe 1 5
```

#### 6197.10F.ST18.twt

```
H220 -
H223 - Novel Sequence
 1400 130
 Ile leu
 0210 101
0211 8
0212 PET
0213 Artificial Sequence
3.1.1.1.1 ·
Mala Novel Sequence
-14 Oct - 13 L
Leu Gln Fro Asn Phe Leu Arg Phe
%210 + 132
%211 + 7
%212 + PET
%213 / Artificial Sequence
-1229 -
Halibe Novel Sequence
-(4100 × 13.1
Lys Fro Asn Pae Ile Arg Phe
%210 + 133
%31 + 4
%212 + PFT
%313 - Artificial Sequence
+2100
+2132 Novel Sequence
-14000-135
Phe Met Arg Phe
+:210:+ 134
+:211:+ 4
+:212:+ PRT
+:213:+ Artificial Sequence
-:22():-
<2230 Novel Sequence
```

# #197.10E.0TLE.twt

```
<400% 134
Phe Leu Arg Fhe
<220>
<223> Nowel Sequence
<4000 135
Tyr lle Arg Phe
0210: 136
02110: 7
02110: PET
00110: Artificial Sequence
HOME (1) Nowel Sequence
49000 136
Gly Asn Ser Phe Leu Arg Phe
Sinitive 137
Sinitive 7
Sinitive PFT
Sinitive Artificial Sequence
-122101-
HULE: Novel Sequence
44000 137
Asp Fro Ser Phe Leu Arg Phe
-01100 138
-0110 6
-01120 PFT
-01130 Artificial Sequence
1.11.01
HDD3: Novel Sequence
<400: 138
Gln Asp Phe Met Arg Phe
<2100 139
<211 9
<212 PRT
```

Fage Pi

```
6197.10F.3T18.txt
<213> Artificial Sequence
<2201
<223 · Novel Sequence</pre>
<400 · 139
Lys Pro Asn Gln Asp Phe Met Arg Phe
::210 - 140
::211 - 1 :
::212 - PAT
::213 - Artificial Sequence
```

-122)+

-223 - Novel Sequence

-:400 - 140

Thr Asp Tal Asp His Val Phe Leu Arg Phe 5

:(21) : 141
:(211 : 6
:(212 : PFT
:(213 : Artificial Sequence

<.220 -

3223 Mivel Sequence 4400 - 141

Ala Ala Met Asp Arg Tyr

%210 + 140
%211 + 9
%212 + 147
%213 - Artificial Sequence

HOLD: Novel Sequence

-(4000- 142

Jer Pro Lys Gln Asp Phe Met Arg Phe 1. 5

02100 143 02110 7 -1211 PF T

::219: Artificial Sequence

3220cm

R223 Novel Sequence

<4000 143

Pro Asp Asn Phe Met Arg Phe

## 6297.10F.3T28.tmt

```
<210 > 144
<211 : 9
(312 : PRT)
(313 : Artificial Sequence
1.12 ) -
4123 - Novel Sequence
-(4)) - 144
Asp Pro Lys Gln Asp Phe Met Arg Phe
4210 - 145
ALL: 9
Artificial Sequence
12.22
N.vel Sequence
414101 - 145
Thr Pro Ala Glu Asp Phe Met Arg Phe
%210 * 146
%211 * 7
%212 * PFT
*213 * Artificial Sequence
H210 + Havel Sequence
+400 - 146
Ser Asp Asn Phe Met Arg Phe 1
+010* 147
+011* 4
*C10* PFT
<C13* Artificial Sequence</pre>
·:2000-
+12113 - Novel Sequence
+14000 - 147
Tyr Leu Arg Phe
+02100 148
+02110 6
+00110 PFT
+02130 Artificial Sequence
<:21.00
<2230 Novel Sequence
```

## 6297.1CP.ST25.txt

```
400> 148
Our Asp Arg Ash Phe Leu Arg Phe
 123 - Nevel Sequence
 4 0 - 149
 In: Asn Arg Asn Phe Leu Arg Phe
1 __ () +
-223 Novel Sequence
+400 - 150
Fig. Asp Val Asp His Val Phe Leu Arg Phe
151 26 26 211 PF7 2114 Artificial Sequence
...10 -
...13 - Novel Sequence
· 400 · 151
31% Asp Val Asp His Val Phe Leu Arg Phe
+2100 151
+211 8
+2120 PFT
+2130 Artificial Sequence
·1130 Novel Sequence
+4 CH 151
Fhe Leu Phe Gln Pro Gln Arg Phe
·210: 153
·211: 10
```

```
6297.109.8T28.twt
 <212% PRT
<213 Artificial Sequence
 :220
:223 - Novel Sequence
 4400 - 153
 Ala Arg Gly Pro Gln Leu Arg Leu Arg Phe
 431) 154
 0211 9
0212 PH.T
 3213 Artificial Sequence
-121.200
 42.23 Novel Sequence
 (4.09 + -15.4)
 Phe Asp Asp Tyr Gly His Leu Arg Phe
+0010 + 155
Hall PFT
Hall Artificial Sequence
<:220 -
HILLS - Novel Sequence
H1400 - 155
Phe Asp Asp Tyr Gly His Leu Arg Phe
%210 + 15%
%211 + 8
%211 + FFT
%213 + Artificial Sequence
%21()
%Close Movel Sequence
<4000 156
Met Asp Ser Asn Phe Ile Arg Phe
+:216:+ 157
+:212:+ 9
+:212:+ PFT
+:212:+ Artificial Sequence
-11.2(n)-
H2233 Novel Sequence
<4000 157
```

Phe Asp Asp Tyr Gly His Leu Arg Fhe

```
5
<2105 188
<2117 9
<2127 FRT
<213: Artificial Sequence
<220 - 
<223 - Novel Sequence</pre>
<4000 155
Phe Asp Asp Tyr Gly His Leu Arg Phe
<210:- 159
<211:- 9
:21::- PET
:21::- Artificial Sequence
12200
12200 Novel Sequence
-:100: 11.9
Phe Asp Asp Tyr Gly His Met Arg Phe
· 5
+1210+ 160
+1210+ 14
+1210+ PET
+1210+ Artificial Sequence
%2260
%3270 Nowel Sequence
-(10). - 1+0
Gly Gly Asp Asp Gln Phe Asp Asp Tyr Gly His Met Arg Phe
                                               10
02100 101
02110 8
00110 PET
02110 Artificial Sequence
HI2201-
HI2201- Novel Sequence
-140. - 161
Ser Arg Pro Tyr Ser Phe Gly Leu
<d1) + 162
<d11 + 7
<d12 + PRT
<d13 + Artificial Sequence</pre>
K220.4
```

6297.10B.ST28.twt

```
1823> Novel Sequence
 +400 • 162
 Asp Tyr Gly His Met Arg Phe
-.11: 163
-.11: 9
-.12: FFT
-.11: Artificial Sequence
+123+ N.vel Sequence
+400 + 1+3
Ala Pro Arg Thr Pro Gly Gly Arg Arg \frac{1}{5}
Cll 164
Cll 8
Cll 9 PFT
Cll 8 Artificial Sequence
-123 Nivel Sequence
- 400 - 1r4
Val Glu Arg Tyr Ala Phe Gly Leu
:21 · 105
:211 · 8
:212 · PFT
:213 · Artificial Sequence
+400 - 165
Lou Pro Mal Tyr Asn Phe Gly Leu
+:C10 + 1r6
+:C11 + 11
+:C12 + PFT
+:C13 + Artificial Sequence
+ 11.10
-L23: Novel Sequence
+4000 105
Thr Thr Arg Pro Gln Pro Phe Asn Phe Gly Leu
+210: 167
```

# 6297.13P.8T28.txt

| <211><br><212>                              |   |
|---|---|
| 1.220 •                                     | Novel Sequence                            |
| -:40C:+                                     | •   |
| Glu As                                      | p Val Asp His Val Phe Leu Arg Phe<br>5 10 |
|   | 1.70                                      |
| -:::10:-<br>-:::11:-<br>-::12:-<br>-::213:- | 7   |
| -::20:-                                     | Novel Sequence                            |
| -:400:-                                     | 168                                       |
| _   | n Ser Phe Leu Arg Phe                     |